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No. 2314.

MAY 31, 1924.

Vol. C

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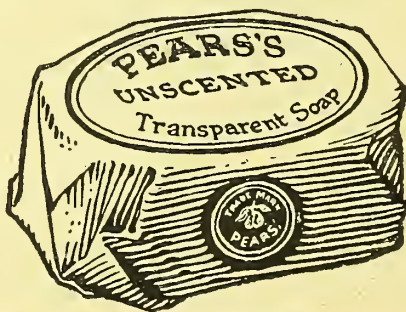
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with each Box
of Blades

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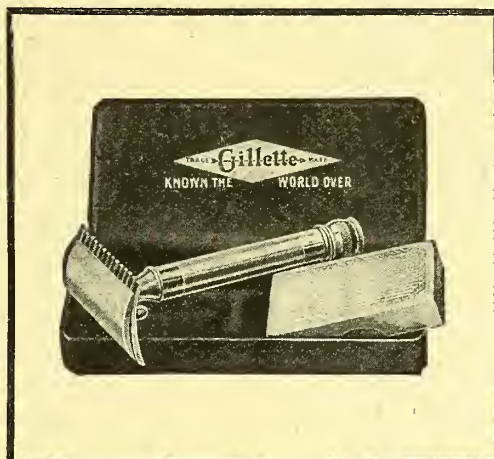
Twenty „ „ 5's **31/8**

Less 2½% prompt cash

Osborne, Garrett & Co., Ltd.
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Beacon Gillette.
Dark blue leatherette case, containing gold-plated razor, and two blades (four shaving edges) in gold-plated chased blade box.



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Black spectacle shaped case, containing gold-plated razor and two blades (four shaving edges) in gold-plated chased blade box.
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Debutante Gillette.
(Ladies' Razor.)
Light blue leatherette case, lined grey velvet, containing gold-plated razor and two blades (four shaving edges) in gold-plated chased blade box.

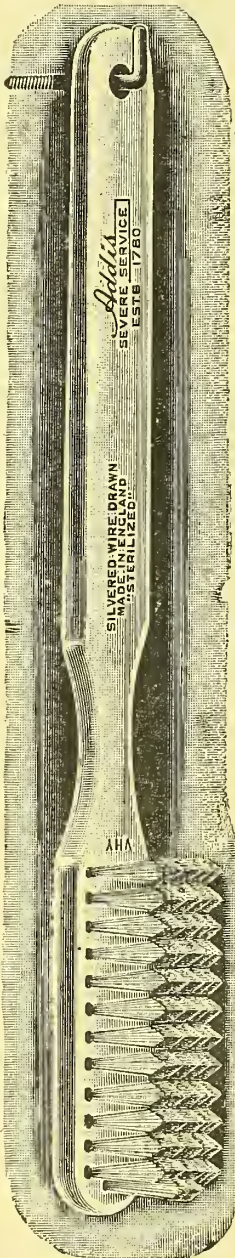
Sangers

42a HAMPSTEAD ROAD, N.W.1.

WHOLESALE ENQUIRIES: OGEE SELLING SERVICE LTD., 51-54 FRITH STREET, W.1.

The First Tooth Brush

ADDIS
SEVERE SERVICE
Estb. 1780.



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was made in 1780 by WILLIAM ADDIS in London, England. The business then founded has been carried on continuously, passing direct from father to son. The policy of the business has always been "Service" to user.

When purchasing a Tooth Brush, should you require a stiff brush for Severe Service, ask for

"Addis Severe Service"

This is typically an English Style Gentleman's Brush, made of Unbleached Bristles, with small serrates on a plain straight handle.

For those who require a smaller and more stylish brush the

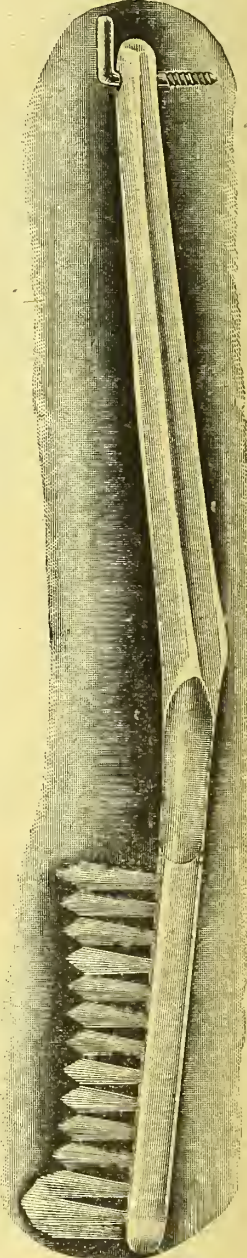
"Addis Prophylactic"

on a curved handle, will fill the want. This brush is made in Very Hard Unbleached Bristles, Hard White, Medium White, and Soft if required. We recommend the Hard for the average use, bristles always being softer when wet.

Both these brushes are hand-fashioned and hand-drawn, the best materials and methods of workmanship being used regardless of cost.

Manufactured in England and Guaranteed by:
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MANUFACTURERS IN THE WORLD

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BRUSH WORKS, HERTFORD, ENGLAND.

INDEX TO ADVERTISERS

Addis, R., & Son (Toothbrushes)	4	Burge, Warren & Ridgley, Ld. (Clinical Thermometers)	39	Field, C. W., Ld. (Saponine Powder, &c.)	ix
Allen & Hanburys, Ld. (Packed Drugs, Insulin, &c.)	Cover-xv	Burgoyne, Burdidges & Co., Ld. (Counter Requisites)	x	Field, Sons & Co., Ld. (Printers)	xx
Allen, R. H., & Co. (Boracic Socks, &c.)	xxiv	Burrough, J., Ld. (Absolute Alcohol)	47	Fink, F., & Co. (Gums)	42
Ambatiello Bros., Ld. (Vacuum Flasks)	38	Burroughs Wellcome & Co. (British Empire Exhibition)	36	Finzelbergs, H., Nachfolger Chemical Works	viii
American Drug Supply Co., Ld. (Dextrin-Maltose)	xiv	C. & H. Service (Developing, &c.)	36	Ford, T. H., Ld. (First-Aid Cases)	xxii
Anglo-American Oil Co., Ld. (Liquid Paraffin)	xix	Cartwright, W. B., Ld. (Elfrida Toilet Series)	Cover	Gardner, W., & Sons (Glos.), Ld. (Machinery)	44
Anglo-French Drug Co., Ld.	xv	Cavendish Chemical Corporation ..	xii	George, E. J. (Valuers, &c.)	Col. Supp.
Arnfield, J. C., & Sons, Ld. (Drugs) ..	vii	Chemists Sundries, Ld. (Bottles) ..	14	Gillette Safety Razor, Ld. (Safety Razor)	34
Association of Manfg. Chemists, Ld. Col. Supp.		Christy, T., & Co. (Pyshan Points Tea, &c.)	42	Glaxo (Food)	Text
Astor, Boisselier & Lawrence (Liquid Paraffin, &c.)	45	Chrystoid (Chemists), Ld. (Malt and Hops)	13	Gledhill, G. H., & Sons, Ld. (Cash Tills)	46
Ayrton, Saunders & Co., Ld. (Wholesale Druggists)	15	Coleman & Co., Ld. (Wincarnis)	20	Goodall, Backhouse & Co. (Drugs, Chemicals, &c.)	20-xi
Barker, R., & Son, Ld. (Infants' Preservative)	20	Connell, A., & Co. (Essences, &c.) ..	28	Gower, J. (Books)	Col. Supp.
Battin, H., & Co., Ld. (Camomile Flowers, &c.)	ii	Cooper, Son & Co., Ld. (Cachets) ..	42	Greeff, R. W., & Co., Ld. (Chemicals) ..	9
Battle, Hayward & Bower (Sheep Dips, &c.)	38	Corrugated Packing Materials Co., Ld. (Corrugated Paper Boxes, &c.) ..	xx	Grout & Co., Ld. (Norvic Crêpe Bandage)	xxiii
Beatson, Clark & Co., Ld. (Bottles) ..	12	Courtin & Warner, Ld. (Chemicals, &c.)	vi	Guest, T., & Co., Ld. (Blood Jubes, &c.)	43
Beaverpuf, Ld. (Powder Refill, &c.) ..	26	Cox, Arthur H., & Co., Ld. (Liver Pills)	Cover	Haller Laboratories, Ld. (Danysz Virus)	40
Bengue, Dr. & Co.	viii	Cresswell Bros., Branch Intl. Sponge Importers, Ld. (Sponges)	35	Harker, C. R., Staggs & Morgan, Ld. (Peldo)	30
Berdoo & Fish (Valuers, &c.)	Col. Supp.	Crookes Laboratories (Collosol Ferromalt)	xiv	Harley, T. (Rat Poison)	40
Berk, F. W., & Co., Ld. (Acids, &c.) ..	iv	Cuff, J. H., & Sons (Fly Oil)	41	Harvey & Co. (Dublin), Ld. (Veterinary)	40
Berton, Arthur, Ld. (Surgical Dressings)	xxi	Cussons, Sons & Co. (Baby Powder) ..	32	Haywood, J. H., Ld. (Seamless Elastic Hosiery)	xxii
Betts & Co., Ld. (Coll. Tubes)	44	Cuxson, Gerrard & Co., Ld. (Lysol)	43	Hertz & Co. (Liquid Paraffin) ..	xviii
Bidwells, Ld. (Gloria Toothbrushes) ..	36	Damancy & Co. (Digentenzymes Tablets, &c.)	42	Howard, R. H., Co. (Trusses, &c.)	xxiii
Blackaller & Pleasance (Eau de Cologne)	23	De, S. N., M.Mc. (Podophyllin, &c.) ..	vi	Himrod Manfg. Co. (Asthma Cure) ..	xii
Boehm, Fredk., Ld. (Cod Liver Oil) ..	20	Dearborn (1923), Ld. (Toilet Specialities) ..	24	Hindes, Ld. (Hair Brushes)	36
Boots Pure Drug Co., Ld. (Insulin) ..	xxii	Denver Chemical Manfg. Co. (Anti-phlogistine)	xvi	Hoffmann La Roche Chemical Works, Ld. (Sedobrol)	ii
Bourjois, A., et Cie, Ld. (Baby Powder)	27	Dyspepsol Tablet Co. (Tablets)	42	Honeywill Bros., Ld. (Alcohol)	xx
Brand & Co., Ld. (Foods)	21	Edwards & Gritton (Naphthalene Balls)	38	Hooper & Co. (Chemists' Sundries) ..	xv
Brett & Co.	Col. Supp.	Eueryl, Ld. (Denture Powder)	33	Horlick's Malted Milk Co.	7
Brierley, J.	Col. Supp.	Evan-Williams Co., Ld. (Henna Shampoos)	50	Hornby & Co. (Tin Canisters)	38
Bristow, T. F., & Co., Ld. (Ichthyol Skin Soap)	31	Fairchild Bros. & Foster ("Holidin")	Text	Hovenden, R., & Sons, Ld. (Lloyd's Euxesie)	24
British Drug Houses, Ld. (Kalosan) ..	48	Farrow & Jackson, Ld. (Filters)	46	Howard Lloyd & Co., Ld. (Pills and Tablets)	viii
British Dyestuffs Corporation, Ld.	vii	Featherstone Hammond Partners, Ld. (Contralesin)	xv	Ingram & Royle, Ld. (Mineral Waters)	8
Brunner, Mond & Co., Ld. (Alkalies) ..	ix			Isaacs, I., & Co. (Bottles)	14
Buckley Bowker Tablet Co.	xv				
Buckton, G., & Sons, Ld. (Naphthalene)	vi				

[Continued overleaf.]

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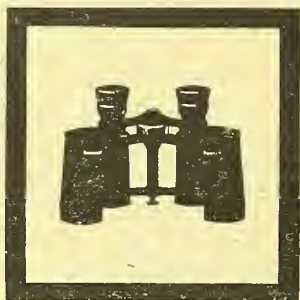
INDEX—cont.

Jackson, J. P., & Co., Ld. (Machinery)	44	Nestlé's (Milo Food)	18	Smith, Stanistreet & Co., Ld. (Chaulmoogra Oil)	viii
James Cycle Co., Ld. (Carrier Tricycles)	44	Newball & Mason (Ext. of Herbs, &c.)	16	Smith, T. & H., Ld. (Chemicals) ..	ii
Johnson & Sons (Mfg. Chts.), Ld. (Chemicals)	iii	Newbery, F., & Sons, Ld. (Druggists' Sundries)	26	Smith, W. (Bottles)	45
Johnston & Adams (Slipperine) ..	xviii	Newcastle Cork Supply Co. (Corks) ..	20	Solazzi (Liquorice)	viii
Josephs, Philip, & Sons, Ld. (Col. Supp.) ..	41	Oldfield, Pattinson & Co. (Pharm. Preps.)	5	Solport Bros., Ld. (Poudre Compacte) ..	30
Kay Bros., Ld. (Fly Catchers)	41	Olley, C., & Sons, Ld. (Corks)	45	Spatula Publishing Co. (Books)	xx
Kent, G. B., & Sons, Ld. (Brushes) ..	32	O-Pine-O Manfg. Co., Ld. (Toilet Preps.)	30	Speer, W. R., & Son (Toothbrushes) ..	32
Kerfoot, T., & Co., Ld. (Mineral Spring)	17	Orridge & Co. (Valuers, &c.) .. Col. Supp.	3	Spencer Bros. (Powder Puffs)	31
Kirby, H. & T., & Co., Ld. (Lavender Moth Tablets)	xii	Osborne Garrett Co., Ld. (Gillette Razors)	3	Spurway et Cie, Ld. (Eau de Cologne, &c.)	22
Koh-i-Noor Tooth Brushes	Cover	Page, Chas., & Co., Ld. (Chemicals) ..	iv	Stambois, L. J. (Razors and Blades) ..	32
Koko Maricopas Co., Ld. (Toilet Preps.)	25	Papier Poudre, Ld. (Toilet Preps.) ..	30	Stedman's, Dr., Teething Powders ..	42
Lamb & Watt, Ld. (Wines)	12	Parke, Davis & Co. (Toilet Preps.) ..	10	Stern, H. C. (Toilet Paper)	xxiv
Lands, Ld. (Health Salt)	16	Pearse, W. A. (Aniline Dyes)	ix	Sterns, Ld. (Oils, Petroleum, &c.) Text	42
Lang, Jules & Son (Glassware)	37	Pears, A. & F., Ld. (Soaps)	2	Stevens, C. H. (Umckaloabo)	42
Langley-Smith & Co. (Turpine) ..	xviii	Photopress	36	Stonehouse Bros. (Flycatchers)	41
Lax & Shaw, Ld. (Bottles)	14	Phyllis Earle, Ld. (Foundation Cream)	26	Surgical Hosiery Co., Ld. (Seamless Hosiery)	xxii
Levermore, A., & Co., Ld. (Precipitated Chalk)	42	Pierson, Morrell & Co., Ld. (Aspirin) ..	ix	Sutton, G. F., Sons & Co. (Cloudy Ammonia)	xviii
Licenses and General Insurance Co., Ld.	xx	Prescriber, The	39	Tipper, B. C., & Son (Veterinary) ..	41
Liverpool School of Pharmacy	39	Prichard & Constance (Whol.), Ld. (Amami Shampoos)	31	Toinoco Handkerchief Co., Ld. (Paper Handkerchiefs)	xxii
Lloyd, Aimee & Co. (Euxesis)	25	Provincial Insurance Co., Ld.	Text	Tomlinson & Hayward, Ld. (Weed Killer)	42
Lorimer-Marshall, Ld. (Health Salt, &c.)	13	Quelch, Henry C., & Co. (Nuctone) ..	28	Tomlinson, T., & Son (Valuers, &c.) ..	Col. Supp.
Mack-Ivor, J. Col. Supp.		Raphaels, Ld. (Binoculars, &c.)	5	Toogood, Wm., Ld. (Insect Bite Stick, &c.)	29
MacSweeney, E. (Tinori Corn Cure) ..	xxii	Reuter, R. J., Company, Ld. (Vegetable Leaflets)	22	Trufood, Ld. (Foods)	18
Manchester School of Pharmacy	39	Roberts & Co. (Tonic)	xiv	Tunbridge & Wright (Flycatchers) ..	41
Marbœuf, L., & Cie (Boxes)	1	Robinson & Sons, Ld. (Boxes)	Text	Tyrer, T., & Co., Ld. (Chemicals) ..	vii
Matthews, Stephen, & Co., Ld. (Curi-cones)	xvi	Rose, J. L. (Pyrogallie Acid)	vi	United Alkali Co., Ld. (Chemicals) ..	vi
Maw, S., Son & Sons, Ld.	11	Royle, J. W., Ld. (Mineral Waters) ..	21	Veno Drug Co., Ld. (Dr. Cassell's Tablets)	xvii
Mawson & Proctor, Ld. (Majax)	42	Rudduck & Co. (Shopfittings) .. Col. Supp.		Viscose Development Co., Ld. (Bottle Cappings)	36
May, Roberts & Co., Ld. (Service) ..	xxvi	Rylands Glass & Engineering Co., Ld. (Bottles)	14	Vitamogen, Ld. (Food)	16
Medical Supply Assocn., Ld. (Medical Electric Apparatus)	xxv	Saint Raphael Cie (Tonic Wine)	12	Wallace Heaton, Ld. (Enlarging, &c.)	36
Meggeson & Co., Ld. (Effervescent Preps.)	i	Scholl Manfg. Co., Ld.	xxii	Wards (Gillette Razors)	32
Methylating Co., Ld. (Methylated Spirit)	xx	Schutze, F., & Co., Ld. (Soothers) ..	xxiii	Warne, W., & Co., Ld.	xxii
Milkal, Ld. (Dried Milk)	19	Scott, A., Ld. (Manicure Sets, &c.) ..	Col. Supp.	Watney, J., & Co., Ld. (Grain Spirit) ..	xviii
Millar, A., & Co., Ld. (Orange Wine) ..	20	Scruton, Oscar, & Co. (Nurse Harvey's Mixture)	46	Westminster College of Pharmacy ..	39
Mitchell, N. W., & Sons, Ld. (Corks) ..	45	Scurr, C. A. (Optical Tuition)	39	Whiffen & Sons, Ld. (Caffeine)	v
Money's Patents, Ld. (Bottles)	38	Shadeine Co. (Hair Dyes)	32	Whipman, P., & Co., Ld. (Chemicals) ..	ii
Morden, S. H., Ld. (Moth Ball)	46	Sherley, A. F., & Co., Ld. (Dog Medicines)	40	Williams, P. J. (Irvona)	21
National Drug & Chemical Co., Col. Supp.		Single, Dalby & Co. (Chicago Hair Dye)	28	Williamson Bros. (Powder Puffs)	31
		Singleton & Cole, Ld. (Tobacco)	38	Winchester Manfg. Co. (Teats, Valves, &c.)	xxii
		Slack, A. Bernard	Col. Supp.	Zeal, G. H., Ld. (Clinical Resetting Case)	xxiv
		Smith & Co. (Fly Catcher)	40		



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Why it pays to push an Original —

An original product is always preferred by the people who matter—they trust a name which is a household word and instinctively resent the mention of an imitation or substitute.

* * *

There's nothing "just as good" as Horlick's—the original Malted Milk.

* * *

Customers value and appreciate sound advice—that expert knowledge which is the result of long experience.

* * *

In recommending Horlick's your advice is as good as the product.

* * *

Gratified as the result of your recommendations, satisfied customers are your best assets—they gain confidence in you and come back.

* * *

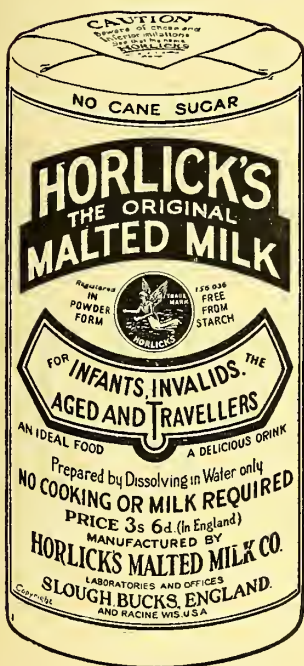
Horlick's always satisfies.

* * *

The sale of Horlick's—the Original—is and always has been directed through Chemists, whilst substitutes and imitations are often exploited through other trades.

* * *

Attractive advertising material for Window Display and Counter Distribution free and carriage paid on application to the Company.



**THE RIGHT
PACKAGE**



Made in England by

Horlick's Malted Milk Co., Slough, Bucks.

Natural Mineral Waters.

WE beg to inform the Trade that we again intend exhibiting at the

CHEMISTS' EXHIBITION

The Central Hall, Westminster, London, S.W.1

On JUNE 23, 24, 25, 26 and 27, 1924

when we shall be very pleased to receive our esteemed patrons who may be assured of a very hearty welcome, and at which time they could inspect the exhaustive range of specimens of Natural Mineral Waters, Salts and Pastilles which we are regularly importing from all quarters of the globe.

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for veterinary use

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P., D. & Co. Toilet Preparations are in steady demand all the year round. Pharmacists can confidently recommend these profitable products with the assurance that purchasers will be fully satisfied with their quality. Displays of any or all of these lines never fail to create sales. Write for Terms.

Germicidal Soap, P.D.&Co

A powerful antiseptic toilet soap for general use. Can be specially recommended as a shampoo for scurf and dandruff, for school children's hair, tired and burning feet, etc. Useful for prevention of insect bites and for relieving obnoxious perspiration. Sale confined to pharmacists.

M.R.P.	M.W.P.
per tab.	per doz.
1/3	10/2



Euthymol TOOTH PASTE

In order to benefit from the advertising that is at present appearing in the national newspapers — such as the *Daily Mail*, *Daily Mirror*, *Daily Sketch*, &c. — and in popular magazines and ladies' journals, pharmacists are recommended to make a window display of Euthymol Tooth Paste and to put a one-dozen outer upon the counter. It will pay in increased sales of a very profitable commodity.

M.R.P.	M.W.P.
per tube	per doz.
1/3	10/2

Hydrogen Peroxide SOLUTION, P.D.&CO

Profits accrue automatically and steadily when the convenient P., D. & Co. bottles are supplied in response to a casual request for "Some peroxide, please." The unequalled strength-retaining quality of Hydrogen Peroxide Solution, P., D. & Co. converts such casual purchasers into regular customers.

	M.R.P.	M.W.P.
	per doz.	per doz.
4-oz. bottles. ...	1/6	12/2
8-oz. " ...	2/6	20/6
16-oz. " ...	4/6	39/3

Dermalac ALMOND LOTION

Of distinctive perfume. Attractively presented in elegant flasks. Sunburn and skin roughness provide opportunities for its profitable introduction in hot weather.



M.R.P.
per bottle
2/6

M.W.P.
per doz.
20/-

"Old-Fashioned" COLD CREAM PARKE, DAVIS & CO.

An elegant preparation, unsurpassed in appearance and quality. Attractively packed in cartons, each half-dozen in a display outer.

M.R.P.
per jar
2/6

M.W.P.
per doz.
20/-



Parke, Davis & Co.
50-54 Beak St.
London :: W.1

Maw's Page



Meritor Tooth Brushes Are British-Made

This is the year for a boom in British-made goods. The influence of Wembley Exhibition is felt all over the country, and the words British-Made on any article carry more weight than ever.

This is the strong point of Meritor Tooth Brushes. They are British-Made. There is some considerable satisfaction in being able to offer your customers a tooth brush which you know is superior to all other tooth brushes, one which you can guarantee, which you know is splendid value at a popular price—and which you can sell as British-Made.

Meritor Tooth Brushes explode that popular fallacy that all British-Made goods are expensive. They are cheaper than some foreign brushes of inferior make.

Keep a corner of your window for a display of Meritor Tooth Brushes. The attractively decorated cartons and display material will make the passing pedestrian stop and look, and once that passing pedestrian has bought a Meritor Tooth Brush he comes back sooner or later for another.

Prices as follows:

	Wholesale Price Per Dozen.	Minimum Retail Price Each.
STANDARD PATTERN —four sizes:—		
Gentlemen's in two degrees, 6 hard and 6 medium in each dozen ..	16/-	2/-
Ladies' ditto	14/-	1/9
Childs' in two degrees, 6 medium and 6 soft in each dozen ..	10/-	1/3
Tom Thumb, soft only	7/6	1/-
PROPHYLACTIC PATTERN :—		
Gentlemen's in two degrees, 6 hard and 6 medium in each dozen ..	18/-	2/6
Ladies' ditto	16/-	2/-
Childs' in two degrees, 6 medium and 6 soft in each dozen ..	12/-	1/6
OFFICIAL PATTERN :—A small stiff unbleached bristle brush, as we supply to the Royal Dental Hospital, One size only ..		
	13/6	1/9
OFFICIAL LONG-HANDLED PATTERN , with lengthened handled to afford an easier and more powerful grip ..		
Yellow bristle	14/-	2/-
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S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
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Don't use COMMON BOTTLES

There is nobody so fastidious as an Invalid. Cater to his fastidiousness by turning out your prescriptions in the best possible style.

There is no better help than a smoothly finished, bright, attractive bottle.

Buy BEATSON'S BOTTLES

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ROTHERHAM GLASS WORKS,
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IF YOU WANT GOOD VALUE IN FOREIGN AND BRITISH WINES

"Crown" Brand
Liebig's Meat and Malt Wine, "Win-Ferro"—Tonic Blood Wine, Lime Juice Cordial and Lemon Squash

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**Tonic, Restorative,
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**Known throughout the World,
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ANÆMIA, DEBILITY, and CON-
VALESCENCE, to Young Women,
Children and the Aged.**

DOSE: One wine-glass after the
two principal meals.

Recommended by—
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"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Ros on Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

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Granular Effervescent Citrate of Magnesia
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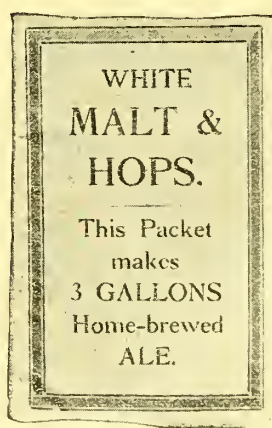
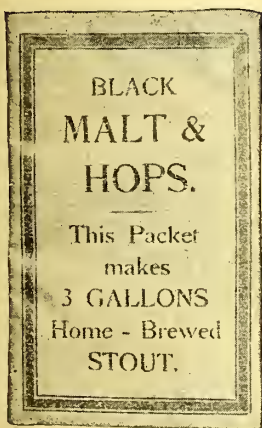
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Price 7/6 per doz.

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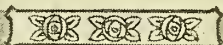
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In all colours

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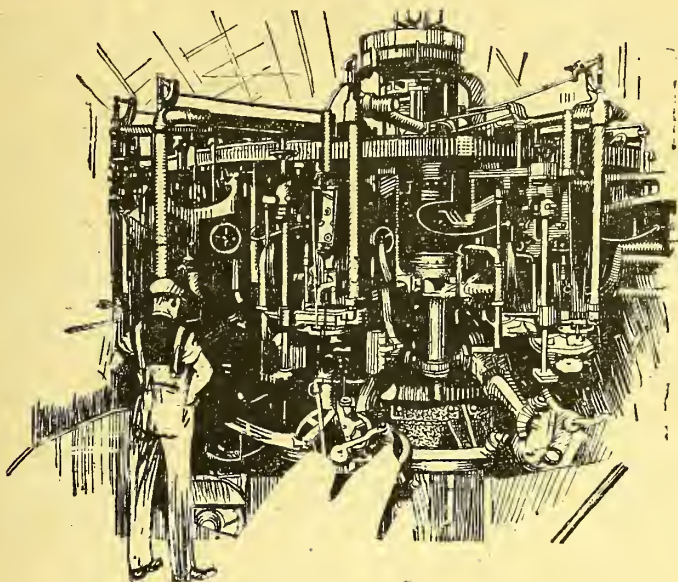
GUARANTEED 8-oz.

GRAD. OR PLAIN MEDICAL BOTTLE

12/- gross for not less than 3 gross.

*Free delivered by motor within a radius of thirty miles from
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is a just description of the Machine which makes
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Owen's Automatic Machine is almost as wonderful as the human brain—it thinks in advance, arranges everything, and its final production is almost as wonderful as the machine itself. Your packed specialities and prescriptions have a greater value, increased sale, and distinctive appeal if offered in Ayrton's Ovals.

A pure white flint bottle of distinctive design.

Prices for original crates:

**CORRECT IN
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Exceptionally strong due
to superior glass dis-
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Every description of bottle
useful to the Chemist.

1 oz.
14/3
2 oz.
16/-
3 oz.
18/6
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8 oz.
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**PACKING & CRATES
FREE**—carriage paid to
any Railway Station in
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1 oz. in 10-gross crates
2, 3 & 4 oz. in 6-gross crates
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12 & 16 oz. „ 2½ „ „

For smaller or assorted lots
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Special quotations for export.

AYRTON, SAUNDERS & Co., LTD.
 Manufacturing Chemists, Hanover St., LIVERPOOL, Eng.

THE FINEST HEALTH SALT

ON THE MARKET
AT A GENUINE WHOLESALE PRICE

WE SPECIALISE IN HEALTH SALT.

EVERY CUSTOMER WHO BOUGHT FROM US, LAST SEASON, HAS REPEATED!

The ingredients are of
the finest quality and
perfectly dried.

Does not Cake.

Retains its power of
effervescence in-
definitely.

4/-

PER DOZ.
IN
GROSS LOTS.
CARRIAGE PAID.
Free Cases.

*N.B. — Judge for
yourself! Entirely at
our expense we will
send, post-free, a full-
size sample tin.*

*If you prefer Liver
Salt we can offer
another line at the
same price.*

LANDS LTD.,

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VITAMOGEN

(VITAMINES)

INVALUABLE FOR
SLEEPLESSNESS
NERVOUS DISORDERS
CONVALESCENCE
AND
INFANTS.

Retail Price - - 2/- and 4/6.

*To be obtained of All
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VITAMOGEN, Ltd.

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24/26 Holborn, LONDON, E.C.1.

NOW IS THE TIME TO ORDER

MASON'S EXTRACT OF HERBS

**Newball & Mason
NOTTINGHAM**



"Good! It's Mason's!"



TO the busy Chemist "Mineral Spring" means a quick profitable turnover and the assurance of repeat sales—a definite building up of goodwill for the Pharmacy.

"Mineral Spring" is now packed in bottles and cartons of a very attractive nature, which make it more than ever the Chemist's Own Effervescible. It is not supplied to the Grocery or similar trades. Orders for "Mineral Spring" are solicited on the basis of its demonstrable superiority to any competitive saline, "Mineral Spring" is Kerfoot (i.e. Chemist's) quality.

The profit on "Mineral Spring" is never less than 33% on selling price, and for orders of only 5 gross is over 40%. "Mineral Spring" has excellent keeping properties, and the growing public demand ensures its sale while it is in a thoroughly active condition.

RETAIL
PRICES
1/- & 2/-
P.A.T.A.



All supplies of the 1/- size are now sent out packed in this attractive carton.

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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Exclusively for Chemists

The sales policy of Trufood is consistent. Propaganda, whether to the medical profession or to the general public, indicates that the food is:

Obtainable from all pharmacists in 20-oz. tins at 4s. 9d. There is no other channel of supply open to the public.

Continuous propaganda to the medical and nursing profession is creating increasing demand. The principal scientific journals carry whole-page announcements each week for Humanised Trufood, in which the claim is boldly made that it is the closest equivalent to breast milk available for the physician or nurse who is called upon to advise on the choice of an artificial food when hand feeding becomes necessary.

The progressive pharmacist will weigh the claims made for Humanised Trufood in the light of the following figures:

	<i>Breast Milk</i>	<i>Cows' Milk</i>	<i>Humanised Trufood</i>
Lactose	6.5	4.7	6.3
Fat	3.3	3.5	3.3
Casein	0.9	3.0	0.8
Lactalbumen	0.4	0.3	0.6
Salts	0.2	0.8	0.6
Water	88.7	87.7	88.4
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

No other Baby Food can make a similar claim and substantiate that claim by analytical data.

Humanised Trufood supersedes the old malt, malt and milk, and ordinary dried milk preparations previously offered.

You should keep at least a minimum stock to meet the growing demand.

If you are not carrying Trufood, write to-day for samples and special trade offer

TRUFOOD

TRUFOOD LIMITED

The Creameries, Wrenbury, nr. Nantwich, Cheshire

T.F. 120—130

NESTLÉ'S MILO FOOD

is being largely advertised in the National Home Papers read by millions throughout the country.

With Fifty Years' Reputation

behind it, the regular demand of half-a-century for this renowned Infants' and Invalids' food is bound to increase with this publicity.

*Trade prices from all
Wholesale Chemists or*

NESTLÉ'S

6-8, Eastcheap, London, E.C.3

Baby's birthright— Clean Milk

MILKAL

"Milkal" is produced by a new and exclusive English process by means of which the imperfections of previously known dried milks have been definitely overcome, and the following important advantages achieved:—

1. The fat is retained in its original globular form.
2. Practically none of the albumen is coagulated.
3. 100% soluble in cold water to give a milk practically indistinguishable from raw cow's milk.
4. In most dried milks when mixed with hot water, the fat separates out—and usually appears in a yellow oily mass on the surface, but not so with "Milkal."

The qualities of Milkal are such that every tin sold is a recommendation not only for Milkal itself, but the shop that sells it.

GT. YARMOUTH.

"I have given Milkal a very good trial in every form and find it THE MOST PERFECT FORM OF DRIED MILK one could wish for."

Nurse (Ref. 151).

SOUTHAMPTON.

"I shall always advise my patients to use Milkal—as it is FAR SUPERIOR TO ANY OTHER MILK I have tried."

Nurse (Ref. 153).

OXFORD

"The best preparation of dried milk I have used I shall HIGHLY RECOMMEND MILKAL."

Nurse (Ref. 154).

BERKS

"AN EXCELLENT DRIED MILK. I shall certainly not hesitate to recommend Milkal for infants requiring artificial feeding and also for expectant and nursing mothers"

Nurse (Ref. 152).

The above
— are —
extracts
from re-
cent letters
received
from mem-
bers of the
nursing
profession.

Write for Trade Terms to the Sole Distributors:

MILKAL LTD

31, ST. PETERSBURGH PLACE, BAYSWATER, LONDON, W.2.

Produced & packed in Devon (England) by MILKAL, Ltd., London & Devonshire.

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

THE BEST AND SAFEST INFANTS'
MEDICINE OF OVER 120 YEARS' STANDING.

Prices and Terms on application to R. BARKER & SON, Ltd.
13 Wesley St., C.-on-M., MANCHESTER.

**DOES
NOT
CONTAIN
any
SCHEDULED
POISON.**

1923

MARTEN'S

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COD LIVER OIL

FINEST NORWEGIAN MEDICINAL QUALITY, B.P.

STEAM-REFINED. NON-CONGEALING. BRILLIANT. GOOD TASTE. EXCELLENT
APPEARANCE. Also VETERINARY QUALITY.

Sole Consignees in the
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FRED^K BOEHM, LIMITED

15, 16, 17 JEWRY STREET, LONDON, E.C.3.

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Stocks kept in London, Hull, Liverpool, Glasgow

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

TINS BOXES & CANISTERS
(made in our own works)
at keenly competitive prices.

Let us quote for any kind or size you
need. Or ask for list of STOCK TINS

GOODALL, BACKHOUSE & CO., Leeds.

CORKS of every description
for every purpose

TRY US FOR

PRICE — SERVICE — QUALITY.

THE NEWCASTLE CORK SUPPLY CO.

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Important Note
to Chemists
without Licenses

It has been estab-
lished by law that
Registered Chemists
may sell Wincarnis
with Quinine with-
out a License.

WINGARNIS

**Sells readily ALL
the time.**

COLEMAN & CO., Ltd., Wincarnis Works, Norwich.

New Prices to
the Public:

Large Size **5/-**

Small Size **3/-**

NEW STOCK FOR OLD



THE GREAT NERVE FOOD AND FLESH BUILDER

EVERY chemist holding stocks of IRVONA of the obsolete 3/- and 15/- sizes should return them to us, when they will be immediately exchanged for the NEW SIZES at equivalent value.

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1/3 size IRVONA.	Trade Price	12/- per doz.
5/- " " " "	" "	48/- "
12/- " " " "	" "	115/- "

Another line rapidly growing in popularity:—

" IRVOLAX " (the safe aperient).

1/3 size	12/- per doz.
3/- " (four times the quantity)	27/- "

Obtainable through the usual wholesale houses, or direct if cash sent with order.

P. J. WILLIAMS
27 Finsbury Street. LONDON, E.C.2



BRAND'S ESSENCE

of Beef, Mutton or Chicken consists solely of the juice of the finest meats, prepared with the greatest care under the most hygienic conditions.

Essential in the Sick Room.

Sold by all Chemists and Stores.

BRAND & CO., LTD.

Mayfair Works, Vauxhall, LONDON, S.W.8.

VICHY AGRÉABLE

In consequence of extensive advertising there is a steadily increasing demand for this excellent French Water which shows the

GREATEST PROFIT TO THE CHEMIST

of any Imported French Natural Mineral Water.

Are you getting your share of orders?

If not, write to the Sole Importers

JOHN W. ROYLE

LIMITED,

67 Charlotte St.
LONDON, W.1.

Any Chemist may have a trial bottle Free of Charge, together with pamphlet giving full particulars of this splendid French Natural Water

All Chemists sending orders for one or more cases can be supplied Free of Charge with pamphlets bearing their own name and address.


PARFUMERIE
  
 Gold Medal Cannes **DE L'ILE** Philadelphia
 NOTRE DAME

Now that the summer weather is with us, and we can look forward with confidence to

HOT DAYS

and a largely increased demand for preparations of a cooling and refreshing nature, we respectfully solicit a trial order for our Watch-shape Flask Series of

EAU DE COLOGNE
AND
LAVENDER WATER

They are Ready Sellers and bring
GOOD PROFITS to the RETAILER and
GOOD VALUE to the CUSTOMER.




EAU DE COLOGNE		LAVENDER WATER	
½ oz. per doz.	10/-	½ oz. per doz.	11/3
1 " "	15/9	1 " "	18/6
2 " "	28/6	2 " "	34/-

We are actual distillers of Oils of Neroli, Lavender, Bergamot, &c., and our prices are based on the manufacturing costs of the oils.


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LIMITED.

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Telegrams: "Neroli, London."
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Factories & Distilleries: Cannes-Grasse, Riviera.
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HUDSON'S
VEGETABLE
LEAFLETS

Impart to the Complexion and Lips a Perfectly Natural Tint which cannot be detected.

On Attractive Cards of One Dozen.

P.A.T.A. PRICE
6d. each
or 1/4½ for 3 booklets

Sell-at-Sight !

TRADE PRICE
3/9 - doz.

Of all the Leading Wholesale Houses, or

R.J.Reuter Co.Ltd.
69 CARTER LANE,
LONDON, E.C.4

Telegrams: "Refreshing, Cent, London."
 Telephone: Central 4461, 4462



This New
COLOURED SHOWCARD
free!

A
pleasing
reminder

A magnificent new multi-coloured (10 colours) Showcard, prettily designed as illustrated, will be sent free and post free upon receipt of a post card from any Chemist.

These showcards have been received with approval by retailers everywhere, and will serve as a pleasing reminder to your customers to purchase the only "Genuine and Original Eau de Cologne, Established 1709."

If you are not stocking, now's the time to send for a small supply which will be supplied on specially advantageous terms.

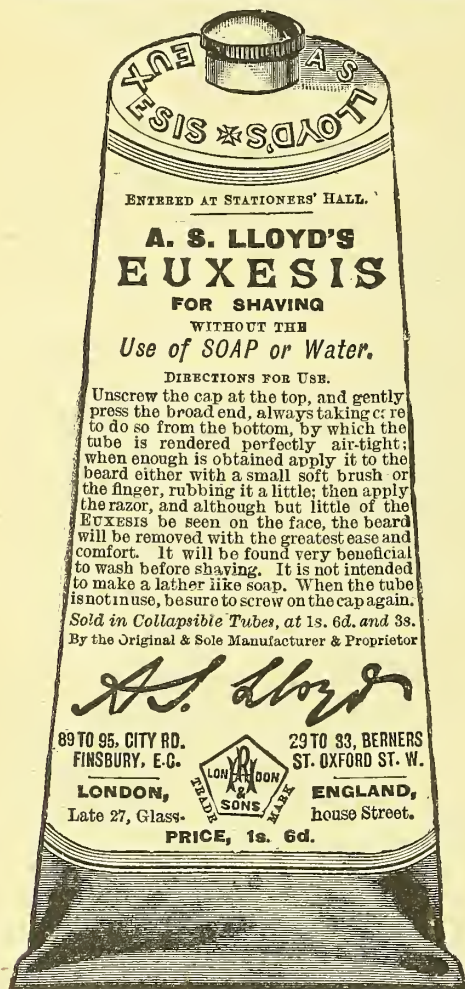
The
Genuine & Original
EAU de COLOGNE
ESTABLISHED 1709.

Sole Agents—
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Cannon Street, London, E.C.4.

A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: R. HOVENDEN & SONS, LTD.

LONDON: 29-33 Berners Street, W.1; and 89-95 City Road, E.C.1

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ... A complexion soap.	10/-	1/-
PROLACTUM ... For the lips.	10/-	1/-
PARSIDIUM JELLY ... For wrinkles.	10/-	1/-
ALLACITE OF ORANGE BLOSSOM ... A dressing cream.	22/6	2/6
BORANIUM ... A hair tonic.	22/6	2/6
CLEMINITE ... For a face lotion.	22/6	2/6
COLLIANDUM ... For a face tint.	22/6	2/6
PERGOL ... A deodorant.	22/6	2/6
TEKKO PASTE ... Camphor cream.	22/6	2/6
STALLAX ... For a shampoo.	22/6	2/6
JETTALINE ... For clearing the skin.	31/6	3/6
PHEMINOL ... A depilatory.	36/-	4/-
MENNALINE ... For the eyelashes.	36/-	4/-
MERCOLIZED WAX... A face cream.	18/- 31/6	2/- 3/6
STYMOL ... For oily complexions and blackheads.	36/-	4/-
SILMERINE ... Hair-curling fluid.	22/6	2/6
BARSYDE ... Dandruff eradicator.	22/6	2/6
TAMMALITE ... For grey and faded hair.	22/6	2/6
LIQUID PERGOL ... To check excessive perspiration locally.	31/6	3/6
BICROLIUM ... For whitening the hands.	22/6	2/6
COCONOIDS* ... For figure development.	31/6	3/6

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ... For obesity.	36/- 58/6	4/- 6/6
SOFT PALERIUM ... For wrinkles.	45/-	5/-
LIQUID NAIL POLISH ... Brilliant and lasting.	10/-	1/-

Stocked by ALL Wholesale Houses.

COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALESAERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd., Cape Town, etc.
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India: FRAMJEE & SON, Bombay.
A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
South America: DEARBORN (South America) Ltd., Calla Salta 264, Buenos Aires.
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A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—
A. S. Lloyd in Black Ink, and that of his Widow,
Aimée Lloyd, in RED. Refuse any other.

**Sole Manufacturers and
Proprietors:**

AIMÉE LLOYD & CO.

**23 PANTON STREET (formerly named Spur Street),
HAYMARKET, LONDON, S.W.**

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

NEW KOKO TOILET LINES

On the P.A.T.A. List. Allowing full margin of profit

KOKO VANISHING CREAM 1/6 per jar P.A.T.A., 13/6 per doz.

KOKO COMPLEXION POWDER 2/- per box P.A.T.A., 18/- per doz.

(In Natural, Rachel, White and Rose)

KOKO SHAMPOO POWDER DE LUXE 4½d. per pkt. P.A.T.A.,
3/4 per doz.

(USUAL WHOLESALE TERMS)

AN extensive advertising campaign has been planned for the new line, together with "**KOKO FOR THE HAIR**," and space has been booked in practically every magazine and daily papers, including "DAILY MAIL," "MIRROR," "SKETCH," "EXPRESS," "CHRONICLE," "DAILY NEWS," etc., etc., for the remainder of the year.

**SEND US A POSTCARD ASKING FOR PARTICULARS OF OUR
GENEROUS WINDOW SHOW OFFER.**

*All orders for Koko Preparations should be sent to our Sole Distributing Agents,
Messrs. BUTLER & CRISPE, 80/82 Clerkenwell Road, London, E.C.1.*

**KOKO-MARICOPAS CO., LTD.,
16 Bevis Marks, London, E.C.3.**

Telephone:
AVENUE 595.

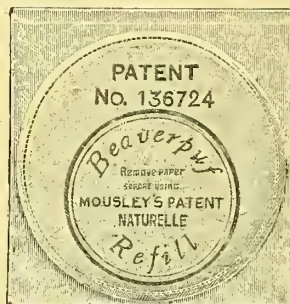
Mousley's
Patent.

"Beaverpuf"
Trade Mark.

Patented
throughout
the World.

Powder Refill for all "Beaverpuf" Models.

Naturelle,
Rachel, Blanche,
Sunburn, Etc.



Price :
6d. and 1/- each.

Illustrated Booklets, Showcard and Price List on application.

"Beaverpuf" Ltd.

**PRIEST BRIDGE,
MORTLAKE,
LONDON, S.W. 14**

Telephone: PUTNEY 166.

SOLE CONCESSIONAIRES FOR GREAT BRITAIN AND IRELAND.

Issued by the Patentee and
Sole Manufacturer:

FRANK MOUSLEY,

"Wilderness" Works,
East Sheen, London, S.W. 14

"Newbery's"
FRANCIS NEWBERY & SONS LTD.

Complete Range

DRUGGISTS' SUNDRIES

including

HAIR BRUSHES

(Whalebone and Bristle)

TOOTH BRUSHES

(Bone and Celluloid)

SHAVING BRUSHES

(all kinds)

FRANCIS NEWBERY & SONS, Ltd.

London

Cardiff

Liverpool

*This delightful cream
meets the needs of all
ladies*

The Phyllis Earle Foundation Cream is a delightful greaseless cream for use before powdering and one which will preserve the softness and smoothness of the skin and delicacy of the complexion.

There is a demand for this cream amongst those who know how really beneficial a good cream can be for it is essentially a high-class product. Profits are just right for the pharmacist who will find that to stock it is well worth while on account of the repeat orders he will get through recommending such a charming cosmetic.

**PHYLLIS EARLE
FOUNDATION CREAM**

Write for trade terms and full particulars.

PHYLLIS EARLE Ltd.
15 North Audley Street, W.1.

(Proprietors of "Kemalite.")

Ashes of Roses

BOURJOIS-PARIS.

The NEWEST and MOST EXQUISITE of the *Ashes of Roses* SERIES.

BABY POWDER

P.A.T.A.

1/-

BOX.



PRICE
8/6
Per Doz.
Gross Lots
8/-
Per Doz.

The latest creation of "Bourjois" has been introduced at the request of numerous customers all over the country. *Ashes of Roses* Baby Powder is admittedly the most delightful and exquisitely packed article of this very popular series. The charming Counter Display Case holding one dozen tins will enhance the attractive appearance of any Pharmacy. The well-known colour scheme of Green and Gold has been reproduced, and the package will make an immediate appeal to the Mother and the Nurse.

NATIONAL ADVERTISING COMMENCING IMMEDIATELY.

POST YOUR ORDER TO-DAY AND AVOID DISAPPOINTMENT.

A. BOURJOIS ET CIE., LTD., 4 Water Lane, LONDON, E.C.4
PARIS NEW YORK AUCKLAND SYDNEY

Nuctone

for GREY HAIR

—IS IT ON YOUR COUNTER?

NUCTONE is a lucrative selling line which you cannot afford to ignore, therefore give it prominence in your window and counter display and make money.

NUCTONE is not an ordinary instantaneous hair dye, but a harmless and guaranteed safe product that restores the normal colour to grey hair *gradually* and *without embarrassment*. There are no ingredients in NUCTONE that will injure the skin or hair. It's the combined action of NUCTONE with light and air that rejuvenates the pigment cells of the hair.

NUCTONE is a colourless liquid and its application is simplicity itself, for by merely combing it through the hair its action commences. This is permanent until the growth of new hair makes further application necessary.

The fame of NUCTONE has spread throughout the country and every day brings demands from some new quarter, together with many testimonials to its efficacy.

Let NUCTONE make friends and profits for you.

Small size 3/9 per bottle. Trade terms 32/- per doz.
Large size 6/6 " " 52/- "

Showcards and explanatory booklets for free distribution are furnished on request.

NUCTONE for dark and medium hair.

NUCTONE ECLAIRE for fair and auburn shades.

NUCTONE CENTRE for Gentlemen
(Made in the 6/6 size only.)

Obtainable from:

HENRY C. QUELCH & Co. Ltd.

4 LUDGATE SQUARE, LONDON, E.C.4,
and other Wholesale Houses.

Manufactured by:

STEWART, GOODALL & DUNLOP, LTD.
4, Dering Street, London, W.1.

60

ESSENCES

HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies

FOR

FRIES & BRO. NEW YORK

The World-Renowned Makers of
FIRST QUALITY ESSENCES.

PEACH
APRICOT
HONEY
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&c.

Stocks

in

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Ask for

Quotations

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Phone: Clerkenwell 7266. Tele.: "Nitrozone, Ald. London."

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HAIR DYE

INVENTED 1893.

One Bottle
Preparation.

Harmless to use.

IN FIVE SHADES:

Light Brown
Brown
Dark Brown
Black
Blonde

Retail 2/-

Cost 11/- per doz.

Profit over 100%
on cost.

Proprietors—

SINGLE, DALBY & CO.

42 Oldham Road, MANCHESTER



Customer's
Name, etc
printed
free
on orders
of
3 dozen
of a
Prepara-
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Full
particulars
of all
Packed
Goods
will be
found in
our New
Price List

INSECT BITE STICK

No. 3792.



Rubbed over the skin this preparation acts as a preventive against the stings of insects.

Applied after being stung it will allay irritation.

Packed in glass tubes with polished metal screw caps.

8/- per doz.

INSECT BITE CREAM

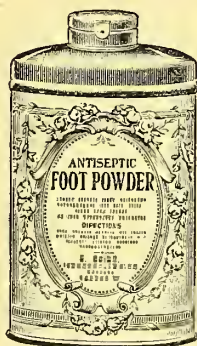
No. 3781.

In collapsible tubes, each in carton.

7/9 per doz.

ANTISEPTIC FOOT POWDER

No. 3686.



In oval gilt canisters with sprinkler top.

7/6 per doz.

MANUFACTURED BY

WILLIAM TOOGOOD LTD
77 SOUTHWARK ST LONDON SE1

Peldo
(Patent applied for)

**THE
INVISIBLE
GLOVE**

We have been demonstrating at the "Ideal Home" Exhibition with great success, and have created thousands of new users. See page 346, C. & D., 8/3/24:—"The demonstrations of the use of 'Peldo' are creating crowds."

IF YOU SHOW 'PELDO' YOU WILL SELL IT!
'PELDO' IS ORIGINAL. It is not a Substitution for Anything.

Obtainable from all the Patent Houses @ **13/6** per dozen.
WINDOW DISPLAY MATERIAL FREE ON APPLICATION.

SOLE PROPRIETORS AND MANUFACTURERS:

C. R. HARKER, STAGG & MORGAN, LTD.
Devon Wharf and Bell Wharf,
EMMOTT STREET, MILE END, LONDON, E.1.



**PAPIER POUDRÉ
POPPŒA ROUGE**

Made in Booklet Form in White, Rose and Rachel tints. 4d., 6d., 8d., and 1/4 sizes at 2/8, 3/9, 5/- and 10/- per dozen nett, respectively.

ONE SIZE ONLY 1/-, at 8/- per dozen.

Sole Proprietors and Manufacturers:

PAPIER POUDRÉ, Ltd., 46 Baker Street, W.1
NONE GENUINE WITHOUT ABOVE TRADE MARKS.



The Evan Williams

ALWAYS IN GREAT DEMAND.
PRICE LIST ON APPLICATION.

The EVAN-WILLIAMS Co., Ltd., 14/15 Union St., W.1.

SHAMPOO

FACE POWDER

Any Grade
Any Colour
Any Quantity

No order too large—none too small.

**COLD CREAM—VANISHING CREAM
MESSAGE CREAM—TALCUM POWDER**

All Merchandise in Bulk or in your own Containers.

Drug Grinding done for the Trade.

The O-PINE-O Manfg. Co. Ltd., Montague Rd., Hornsey, London, N.8

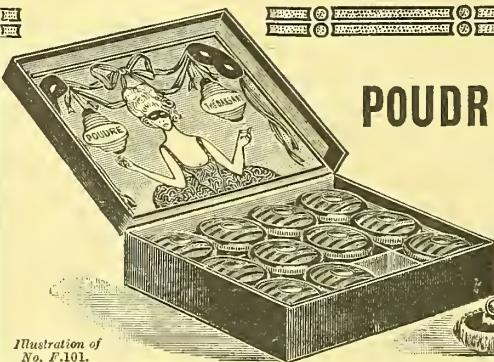


Illustration of
No. F.101.

BIG REDUCTION IN PRICE
POUDRE COMPACTE—"THÉ DANSANT"

In two } No. F.100 Complete with Puff ... 6/- doz.
styles } " F.101 " " " and diminishing Mirror 7/6 " (Regd.)

Improvements in our methods and the adoption of more efficient machines designed by ourselves enable us to decrease considerably our production costs of these two charming lines, and we pass on the reduction to the trade so as to keep our increased output fully engaged. You should give these British-made lines a trial.

Manufactured only by

SOLPORT BROTHERS, Ltd.
184/190 Goswell Road, London, E.C.1.
and obtainable through all Wholesale Houses.

BRISTOW'S MEDICATED ICHTHYOL SKIN SOAP

The big tablet with the
big profit sells and repeats
at 1/-

90/- Gross less 5%

FULL SHOW MATERIAL

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(WHOLESALE AND EXPORT.)

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LARGE VARIETY
OF ATTRACTIVE
GOOD - SELLING LINES.
ORIGINAL DESIGNS.

Write to Makers:

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WE SPECIALISE
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POWDER PUFFS
of
every description

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**QUICK DELIVERIES
FINEST QUALITY
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May we quote you?

WILLIAMSON BROS.
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Phone: Hop 3419



"The Baby Line with the Chubby Profit"

"White Cross" Baby Powder combines the two essentials of success—a good product and a good profit.

Cussons' vast resources enable them to manufacture this high-grade Baby Powder from the very finest ingredients to retail at the popular price of 10½d. (P.A.T.A.), showing you a profit of over 50% in the handling.

"WHITE CROSS" BABY POWDER

The demand for this lucrative, all-British line, so popular with nurses, is being stimulated by skilful advertising direct to the public and to the nursing profession.

Our Special Bonus Scheme will interest you. Write to-day for full particulars.

CUSSONS, *Makers of Fine Soaps and Perfumes*
KERSAL VALE WORKS, MANCHESTER

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—
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KEEN PRICES FOR CASH.

70,800 DOZEN GENUINE GILLETTE BLADES

To be cleared in 10 days.

If Wiring	-	-	-	Wards, Warrington.
If Phoning	-	-	-	857 Warrington.
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WARDS



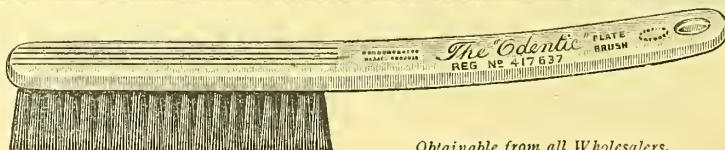
SHADEINE
For COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses.
Trial Size 8d., per post 10d. - 1/4 size, per post 1/7; 2/6 size, per post 2/10; 3/9 size, per post 4/8; 8d. size, 6/- doz.; 1/4 size, 12/- doz.; 2/6 size, 24/- doz.; 3/9 size, 36/- doz.

The SHADEINE CO., 58 Westbourne Grove, London, W.

U.S.A. GILLETTE BLADES - 30/- Per box, post paid.
CANADIAN in 12's and 6's - 28/- "

2/6 VALET, No. "99" Set, 22/6 doz. Subject reduction on quantities
EVER-READY 12 2/- packets Blades and 12 Razors for 16/-. Everything in
RAZORS, BLADES, STROPS, BRUSHES, SOAPS, &c. GILLETTE, VALET,
EVER-READY, DURHAM-DUPLEX, 7 o'CLOCK, RAPID, WILKINSON &c.
Write for Price Lists, &c. Cash with orders.

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Obtainable from all Wholesalers.

"ODENTIC" PLATE BRUSH (Reg. No. 417637) FOR ARTIFICIAL DENTURES

Manufactured by—
W. R. SPEER & SON (Estd. over 100 years.)
TOOTH-BRUSH MAKERS,
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EUCRYL

DENTURE POWDER

THERE is a big field for new business in a powder for artificial teeth at the right price. Many thousands who have to wear dentures are only using salt and water or coarse soap powders, and these are woefully inefficient. Display on your counter EUCRYL DENTURE POWDER and the small card sent with it, and you will find a very ready sale and real new business.

NEW PACKING IN ATTRACTIVE TINS
to retail at 7½d.

ON USUAL GENEROUS BONUS TERMS

EUCRYL LIMITED
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Are you linking-up with the British Empire Exhibition?

Attracted primarily by the wonderful display at the British Empire Exhibition hundreds of thousands of moneyed visitors are taking the opportunity to see as much of the country as possible.

Throughout the British Empire Exhibition the Gillette Safety Razor is extensively represented. Imposing signs will draw the attention of all visitors who will be forcefully and frequently reminded of the advantages of the Gillette.

Visitors make their purchases outside the Exhibition where they see Gillette products displayed.

Retailers are urged to seize this good business opportunity of linking up window shows with the Gillette displays at the great British Empire Exhibition.

Specially attractive window display material is available, which with a display of Gillette outfits will prove most effective in attracting customers.

Write now for your parcel:—sent post free by return. Overlook your stock also—it pays to carry full stock of the complete Gillette Sets ranging from 5/- to £2 2 0. Gillette Blades, packets of 10 (20 shaving edges) 4/6, 5 (10 shaving edges) 2/3.

Gillette
TRADE MARK
Safety Razor
KNOWN THE WORLD OVER
NO STROPPING NO HONING

GILLETTE SAFETY RAZOR, LTD., 184-188, Great Portland Street, LONDON, W.1
 Factories at Slough, England; Montreal, Canada.

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THE SPONGE HOUSE

INTERNATIONAL SPONGE IMPORTERS, LIMITED,

CRESSWELL BROTHERS BRANCH

Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers,
18 and 19 RED LION SQUARE - - - LONDON, W.C.1
 WITH THE LARGEST STOCKS OF ALL SPONGES IMPORTED DIRECT BY US FROM THE FISHERIES
 AT LOWEST PRICES. WE INVITE COMPETITION.



Buyers are invited to Call to inspect our Magnificent Stocks and make their own selections. Lowest Market Prices. Absolutely Best Values. The following abridged List will serve as a guide to Buyers when writing.

UNBLEACHED MEDITERRANEAN SPONGES in Original Cases

THE CONTENTS OF THE FOLLOWING CASES WILL BE PRESS-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST.

To visitors at The British Empire Exhibition we extend a hearty invitation to inspect our stocks at above address.

HONEYCOMB.

Extra Choice. Finest Texture and Shape. The Pick of all the Fisheries.

Pieces in Case.	Average Price per Piece.
300 Toilet at	9d.
250 " "	1/-
200 " "	1/6
160 " "	2/-
140 " "	2/6
120 " "	3/-
100 " "	3/6
90 Medium Bath	4/6
80 " "	5/6
72 " "	6/6
60 " "	7/6
45 Large	8/6
30 " "	10/6

HONEYCOMB.

Toilet & Bath.

Good 2nd Quality.

Pieces in Case.	Average Price per Piece.
270 at	6d.
180 " "	9d.
170 " "	1/-
160 " "	1/6
140 " "	2/-
120 " "	2/6
110 " "	3/-
90 " "	3/6
80 " "	4/-
75 " "	4/6
70 " "	5/-
65 " "	5/6
60 " "	6/6

FINE TURKEY

SOLIDS.

SELECTED

SHAPES.

1st Quality.

	Average Pieces in Case.	Price per Piece.
Nursery	200 at	1/-
Toilet	150 " "	1/6
" "	100 " "	1/9
" "	100 " "	2/-
" "	80 " "	2/6
Bath	50 " "	3/-
" "	36 " "	4/-
" "	24 " "	5/-



LOOSE GOODS DEPARTMENT.

SPONGES IN SMALL PACKAGES. Fine Turkey. Fine Egyptian and Honeycomb. In 1st, 2nd and 3rd Qualities Bleached or unbleached (state which in ordering). On strings of 1 dozen pieces, or loose in bags. At per doz.: 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool, Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.

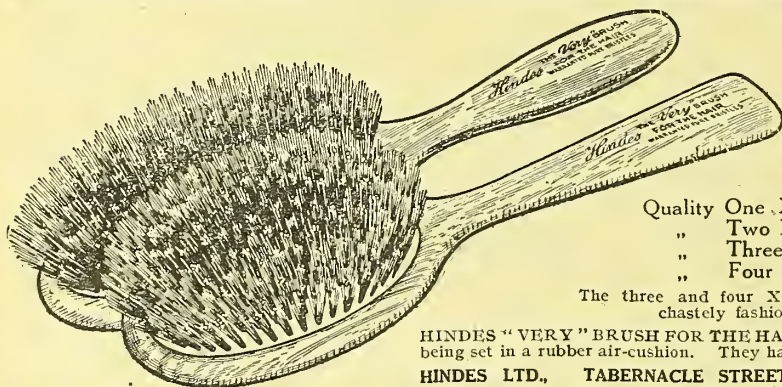
Bidwells'YELLOW BRISTLE IN CENTRE—
WHITE BRISTLE ENDS.IN TRANSPARENT TUBES;
STERILISED AND SEALED AT
FACTORY.**"Gloria" 1924 Model**

REGD 314972

No 2

STRONG IN CENTRE WHERE STRENGTH IS REQUIRED.

17/- A DOZEN MEDIUM. 19/- A DOZEN HARD.

BEST QUALITY ONLY.
HARD AND MEDIUM.HANDLES ASSORTED.
VENTILATED—
HOLE IN HANDLE.**Castle Mills**LONDON OFFICE AND SHOWROOMS:—
Australia House, Strand, W.A.C.2**Exminster, Devon****HINDES
"VERY"
HAIR BRUSH**

Quality One. X	Sold at 7/6d. each.	TRADE PRICE 33 1/3%
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
" Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood
chastely fashioned in both oval and circular bodies.HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts
being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.

HINDES LTD., TABERNACLE STREET, LONDON, E.C. :: Works: BIRMINGHAM.

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DEVELOPED AND PRINTED

SAME DAYBright Sparkling Results that will help you Build
Business. Moderate Charges. Wholesale Terms.
Unfailing Service. Write for List and Terms.**WALLACE HEATON LTD.**17-27 CHANGE ALLEY - SHEFFIELD.
We buy overstocks of cameras for cash and offer big prices.*To Photographic Chemists.
West of England and South Coast.***A Guaranteed
24-hour D. & P. Service***has been established by***C. & H. Service, 3a Terrace Walk, BATH**

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NEVER FAILSNever once have we disappointed our
customers or failed to deliver to time.
Spools handed in by 9 A.M. can be col-
lected the same evening, developed and
printed as perfect as can be.**PHOTOPRESS**SEND
FOR
PRICE LIST.**JOHNSON'S COURT
FLEET STREET
LONDON**24
HOUR
SERVICE.

VISKAP
**SELF-FIXING
BOTTLE CAPS**
Transparent, Opaque,
or Coloured.

Immediate Delivery

From the Manufacturers:
**THE VISCOSE
DEVELOPMENT Co., Ltd.**
Viskap Works,
BROMLEY :: KENT

GLASSWARE

OF EVERY DESCRIPTION ALWAYS IN STOCK



WICKERED EAU-DE-COLOGNE

in $\frac{1}{2}$ oz. and 1 oz. sizes.

Either in plain or coloured wickering.

Plain wickering can be supplied immediately from stock, but coloured would be supplied from works.

Send to "Lang's" for your Glassware and Sundries, everything for the trade can be supplied immediately.

Here are five examples of lines that should well repay attention.

Many other lines, distinct and dainty in design, can be seen, or we would make your own specification.



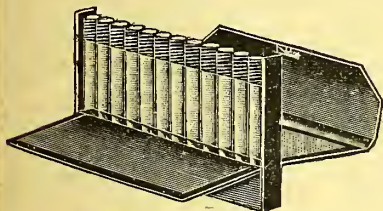
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POMADE BOX

Height about $1\frac{1}{2}$ ins. Diameter about 3 ins. Water capacity about $2\frac{1}{2}$ ozs. Made in various colours such as

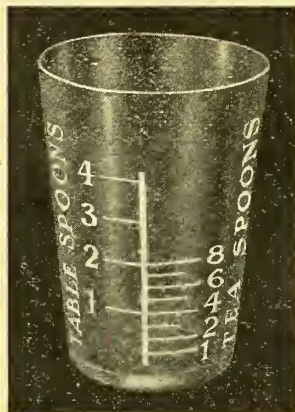
TANGERINE, GREEN, BLUE, ROSE DU BARRY, PRIMROSE, &c.

Very dainty, of good quality and low price. Pomade Boxes in Primrose and Tangerine can be supplied immediately from stock.



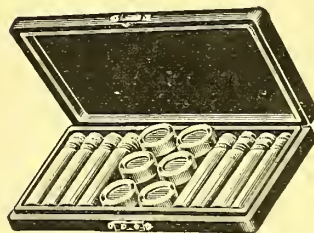
SAMPLE OIL CASES

Sample Oil cases as illustrated always in stock, or can be made to order in any sizes.



MEDICINE TUMBLERS

Medicine Tumblers as illustrated above can be supplied immediately from stock, good quality glass, precise in measure and cheap.



SAMPLE OIL CASES

Sample Oil cases as illustrated always in stock, or can be made to order in any sizes.

SEND TO-DAY FOR OUR ILLUSTRATED LIST

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The Glass Specialists

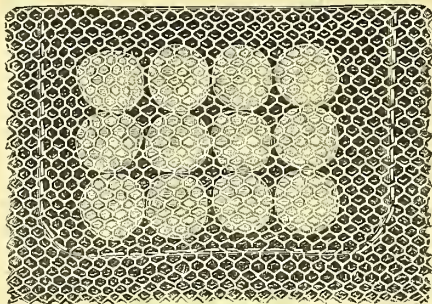
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ISLINGTON, LONDON, N.I.

(Opposite
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Telegrams—
"Assorted, 'Phone
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Size 4½ ins. by 3 ins.

A QUICK SELLING NECESSITY Napthalene Balls

Cotton Net Bags.

For hanging inside Wardrobes, Pianos, &c.

Clean, Convenient, Cheap.

8/- PER GROSS.

Packed in 6 doz. outers, Carriage paid U.K.

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PLAIN, GOLD LACQUERED AND STOCK DESIGNS.
OINTMENT TINS, HEALTH SALTS, &c. FROM STOCK.

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**"DEPENDABLE
TOBACCO
WHOLESALEERS."**

SINGLETON & COLE, LTD., CANNON ST., BIRMINGHAM.

MIXED PARCELS A SPECIALITY.

Established Fifty Years.

Price Lists mailed on request.

A PROFITABLE SIDE LINE
FOR CHEMISTS.

VACUUM FLASKS

AND REFILLS

ALL DESCRIPTIONS IN STOCK.

AMBATIELO BROS., Ltd., 29 Clerkenwell Green,
(WHOLESALE ONLY) E.C.1.

GLASS BOTTLES

FULL RANGE OF

Medicals (plain and graduated),
Flat Dispensing, Panel Flats,
Poisons, Limes, Kalis, Emulsions,
Tobins, Vials, Tablets, &c. &c.

MANUFACTURED BY—

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ALWAYS at the TOP
OF THE POLL.

M.P.'S

BRITISH LOWN BOTTLES

White, Blue, Green,
and Amber.

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SPECIAL PACKED
LINES FOR
SUMMER TRADE !

Sheep Dips Maggot Fly Oil Fly Powders

LICE TOBACCO POWDER

CATTLE MEDICINES

WEED KILLERS (Poisonous and Non-Poisonous) LAWN SAND

DOG PILLS AND SOAP

ATHLETE'S EMBROCATION

High-class attractive decorated tins and cartons. "Agent's own name."

BATTLE, HAYWARD & BOWER (formerly BATTLE, MALTBY & BOWER), Victoria Chemical Works, Lincoln.

CLINICAL THERMOMETERS

BEST ENGLISH MAKE GUARANTEED

Further Reduced Prices.

The "EMPIRE" Brand.

(Ordinary Pattern.)				s.	d.
Hospital pattern	...	...	per doz.	12	6
60-seconds, "lens front	...	...	"	14	0
60-seconds, "plain	...	...	"	15	0
30-seconds, "lens front	...	...	"	17	0
30-seconds, "plain	...	...	"	17	0
"lens front	...	...	"	19	0

The "DUO-IN-UNO."

(Quick Shake-Down.)				s.	d.
Hospital pattern	...	...	per doz.	20	0
60-seconds, "lens front	...	...	"	22	0
60-seconds, "plain	...	...	"	23	0
30-seconds, "lens front	...	...	"	24	0
30-seconds, "plain	...	...	"	24	0
"lens front	...	...	"	27	0

Each one in metal case, and packed in a specially designed card box with descriptive label on lid. Customers can have their names engraved on any of the above Thermometers free of charge.

NOTE.—The above prices are for guaranteed best London Made Thermometers but which are NOT STAMPED at the National Physical Laboratory. If they are required so stamped (N.P.L.) the price will be 3/- per dozen more in each case.

				s.	d.
Metal cases for above, ordinary hexagon shape	...	...	per doz.	2	0
"with clip for waistcoat pocket	...	...	"	3	0
"The "Grafton," for resetting index in ordinary pattern	...	...	"	10	6
No. 1076—PULSE COUNTER, in nickel-plated frame, to record in 15 seconds, 30 seconds, or 60 seconds	...	...	"	7	6

CARRIAGE PAID ON ORDERS OF £3 AND UPWARDS.

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

BURGE, WARREN & RIDGLEY, LTD. 91 & 92 GREAT SAFFRON HILL LONDON, E.C.1.

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Your Opportunity to

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Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.), or the National Association of Opticians (F.N.A.O.).

Write for full particulars—
C.A. SCURR, B.Sc., M.P.S., F.S.M.C., F.B.O.A., F.I.O., F.N.A.O.
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(N.Z. Representative: C. AITCHISON, PALMERSTON Nth.)

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Prospectus sent post free on application.

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Principals:

G. S. V. WILLS, Ph.C. (Founder), P. H. WOODNOTH, Ph.C., F.C.S.

Entries now being received for full course commencing - OCTOBER 8th, 1924.

Revision students for July Examination may commence any time after Easter.

For full particulars apply to the Principals,

190 CLAPHAM ROAD, S.W.9.

Liverpool School of Pharmacy

2 BLACKBURNE PLACE, LIVERPOOL.

Principal—

H. HUMPHREYS-JONES, A.I.C., F.C.S., Ph.C.,
Assisted by JOHN BUTLER, B.Sc., M.P.S.

SPECIAL REVISION COURSES for OCT. Exam. (Parts I. and II.) will commence on AUGUST 11th.

Entries for NEXT SESSION, commencing early in OCTOBER, for Part I., Part II. and Parts I. and II., are now being received.

Full particulars from the Principal.

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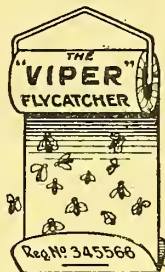
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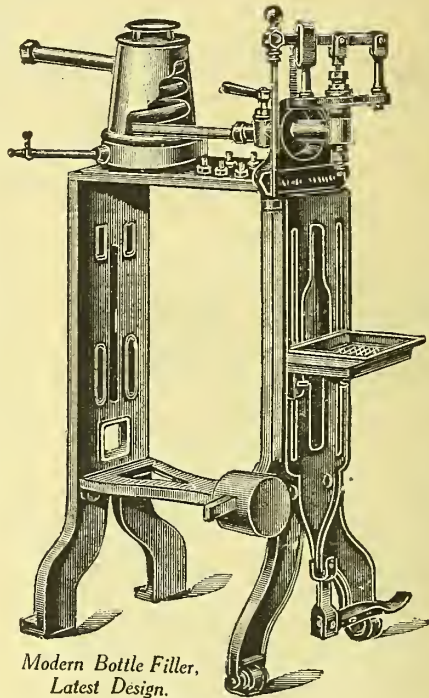
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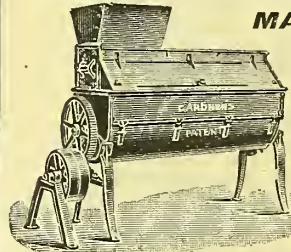


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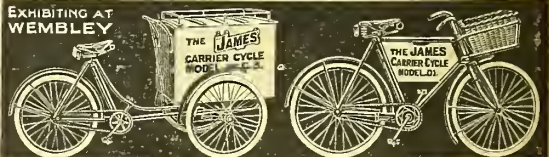
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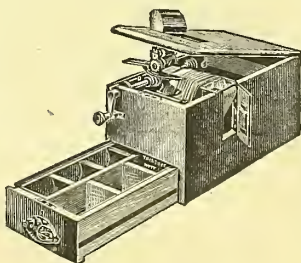


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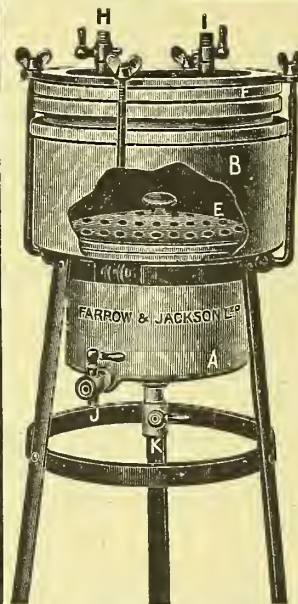
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A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

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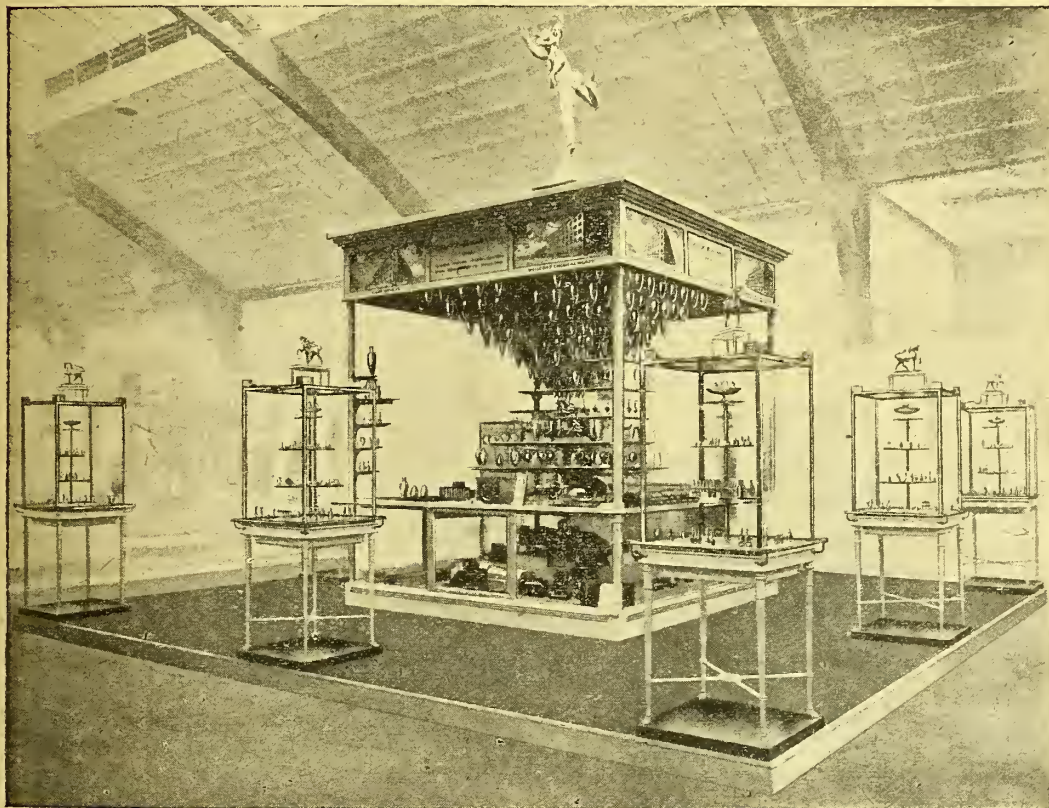
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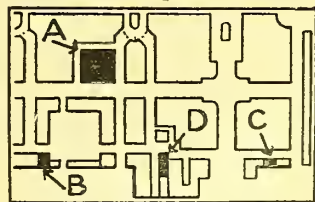
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Retail	-	-	1/3
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Wholesale	-	9/6	

SPECIAL TERMS FOR DISPLAYS.

		Per doz. net	
3 doz.	-	-	9/3
6 "	-	-	9/-
12 "	-	-	8/9

With each order we include attractive show-boxes, show-cards, post-cards, and miniature sample tubes (in cartons).

*Specimen tube free to
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TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 9d., post free; *Diary*, 10s., post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins, Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco.

TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office: 42 CANNON STREET, LONDON, E.C.4

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (3 lines).

Branch Offices: 49 County Buildings, 4 Cannon Street, Manchester. (Telephone: City 52.) Melbourne and Sydney, Australia.

Contents

No. 22

Series 2314

Vol. 100

	PAGE		PAGE
American Notes	752	Marriages	761
Argentine Customs Tariff ..	756	New Companies and ..	
Birmingham Analyst's ..		Company News	755
Report	757	Observations and Re-	
Births	761	fections	763
Business Changes	753	Old Specie Jars	759
Chemists' Golfing Events ..	756	Personalities	761
Colonial and Foreign ..		Pharmaceutical Botany ..	760
News	753	Pharmaceutical Society	
Coming Events	751	of Great Britain:	
Correspondence:		Annual Meeting	768
Letters	780	Branch Meetings	769
Legal Queries	781	Pharmaceutical Society	
Miscellaneous Inquiries ..	782	of South Africa	770
Deaths	761	Poisonings	750
Dental Board	759	Proprietaries in Aus-	
Editorial Articles:		tralia	770
Finance Bill	764	Recent Patents	758
Pharmacists in the ..		Report on Army Phar-	
Army	765	macists	771
Position of Rubber ..	766	Retrospect	782
Formamint Tablets ..	767	Scottish News	751
Rent and Rates	767	Trade-marks	762
English News	749	Trade Notes	762
General Medical Council ..	758	Trade Report	774
Information Department ..	762	Western Pharmacists'	
Irish News	751	Association	757
Jenner Relic	770	Westminster Wisdom ..	767
Legal Reports	754	Wills	761

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Dangerous Drugs Act, 1920 and 1923

(From "The London Gazette," May 27, 1924)

WITHDRAWAL OF AUTHORISATION (HAROLD CHARD)

Whereas Harold Chard, of 7 Providence Street, Ipswich, being a person duly registered under the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, has been convicted of offences against the Dangerous Drugs Acts, 1920 and 1923:

And whereas the said Harold Chard cannot, in my opinion, properly be allowed to be in possession of or supply raw opium, nor to carry on the business of manufacturing or selling or distributing any of the drugs to which Part III of the Dangerous Drugs Act, 1920 applies.

Now, therefore, after consultation with the Council of the Pharmaceutical Society of Great Britain, and in pursuance of the powers conferred upon me by No. 6 of the Raw Opium Regulations, 1921, and by No. 10 of the Dangerous Drugs Regulations, 1921, I hereby give notice that I withdraw, as from to-day's date, from the said Harold Chard, the authorisations granted by the said Regulations to persons who lawfully keep open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, to be in possession of and supply raw opium and to carry on the business of manufacturing, selling or distributing the drugs to which Part III of the Dangerous Drugs Act, 1920, applies.

ARTHUR HENDERSON,

One of His Majesty's Principal Secretaries of State.
Home Office, Whitehall.
May 27, 1924.

Public Institution News

Holborn (London) Borough Council has accepted the tender of Corbyn, Stacey & Co., Ltd., for the supply of drugs.

The annual meetings of the National Poor Law Officers' Association were held in Sheffield on May 23 and 24, the President (Mr. Herbert Antcliffe, member of the Council of the Pharmaceutical Society) in the chair. The delegates were welcomed by the chairman of the Sheffield Board of Guardians, and several topics of interest were discussed. The financial statement showed that the Association had a balance in hand of £1,079 on general account, and of £734 on the Parliamentary fund. The membership is 7,597. On the evening of May 23 the delegates were received at the Town Hall by the Lord Mayor and the Lady Mayoress. The Lord Mayor welcomed his guests in a short speech, saying that Sheffield was scarcely a health resort, but he hoped they would see some of the fine surrounding country. Mr. Antcliffe suitably replied. On the following day Mr. A. Chandler (Birmingham) was elected President for the ensuing year.



MR. H. ANTCLIFFE

Nature Pictures of Medicinal Plants

THE series of nature pictures of medicinal plants which have been issued with THE CHEMIST AND DRUGGIST during the months of January-May have attracted much attention on account of their beauty. As we have received many requests for duplicate copies of these pictures we have decided to issue the series of four plates (eight plants) in an envelope at 2s. 6d. post free. Cash should accompany order. The plants pictured in the series are:—

Aconitum Napellus
Papaver somniferum
Conium maculatum
Atropa Belladonna
Datura Stramonium
Hyoscyamus niger
Valeriana officinalis
Digitalis purpurea

Society of Chemical Industry

The programme of the forthcoming annual meeting of the Society of Chemical Industry, to be held at Liverpool on July 9 to 12 inclusive, has just been issued. The formal sessions, for which the University has been made available, include the address of the President (Dr. E. F. Armstrong, F.R.S.) on July 9 and the Messel memorial lecture by Viscount Leverhulme on July 10. Other fixtures include a reception by the Lord Mayor (July 9), the annual dinner (July 10), and visits to the works of

Joseph Crosfield & Sons, Ltd., the United Alkali Co., Ltd., and Lever Brothers, Ltd. Arrangements for reduced fares have been made by the principal railway companies, and many offers of hospitality have been sent to the Executive Committee, the chairman of which is Mr. Edwin Thompson (Thompson & Capper, Ltd.). A detachable form sent with the programme is to be returned to Mr E. Gabriel Jones, City Laboratories, Mount Pleasant, Liverpool, not later than June 28.

Morphine Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

An open verdict was returned at an inquest held in West London, on May 28, on the body of Dr. Patrick Black, who died in hospital. Medical evidence was given to the effect that death was due to bronchial pneumonia accelerated by morphine poisoning.

An inquest held on May 26 on the body of Mr. John Dickie, M.B., resulted in a verdict of "Death by misadventure." The report of Mr. John Webster, F.I.C., Home Office analyst, showed that about $\frac{5}{8}$ gr. of morphine was present in the body, and Dr. Dickie's assistant deposed that on four successive nights the doctor had taken $\frac{1}{4}$ gr. of morphine.

On May 24, an inquest was held at Southampton on the body of Mrs. Green, wife of a club steward. The husband stated that on May 21 he found her insensible and sent for a doctor. By her side was a blue vial, which was found to contain morphine tablets. A medical witness said they were veterinary tablets, each containing nine grains of morphine. A verdict of "Death from misadventure" was given.

Birmingham

Empire shopping week in the city proved highly successful.

Dr. A. Clark, Birmingham's first lady-doctor (*C. & D.*, March 1, p. 289), left £5,120, with net personality £4,618.

Among the recent donations received by the Birmingham General Dispensary are £50 from Mr. W. A. Cadbury, and a similar sum from Alderman F. C. Clayton, J.P., Ph.C.

Two members of the Birmingham and Midland Pharmacists' Motor Club secured honours in the Vesey cup reliability trial on May 24. Mr. G. S. Galloway was awarded a gold medal, and Capt. L. J. L. Sparke a silver medal. The course was 200 miles through Wales, and included the famous Bwlch-y-Groes hill, which is two miles long, with a gradient of 1 in 5, and is approached by a "hairpin" 1 in 2 $\frac{1}{2}$.

Liverpool

Business still awaits the expected increase from the Colonial visitors passing through the port to Wembley. Among the visitors met at Wembley recently were: Mr. and Mrs. A. J. Ferriday, Mr. Henry Peet, Mr. John H. Robinson (Liverpool), Mr. Barker (Windermere), and Mr. Cannon (Truro).

Mr. Harry Martin (President of the Western (London) Pharmacists) is an ex-secretary of the Liverpool Chemists' Association. By Liverpool friends met in the Metropolis lately he has been pleasantly reminded of the farewell dinner given to him at the Angel Hotel, Liverpool, and the speech by the late Sir Rupert Boyce, the distinguished authority on tropical diseases.

Manchester

Councillor F. W. Bates, J.P., Brooks's Bar, chairman of the Stretford Education Committee, has been visiting the British Empire Exhibition with a view of making arrangements for three hundred school children to visit the Exhibition.

On May 21, thirty students of the Pharmaceutical Department of Manchester University visited the works of Evans Sons Lescher & Webb, Ltd., Liverpool. They were shown over the Ellesmere works, and also over Crofton Lodge, where they saw calves being inoculated for lymph, the manufacture of insulin, organo-therapeutic exhibits, and physiological experiments. In the

afternoon they visited the laboratories and mills in Liverpool, after which tea was provided. The students, who were in charge of Mr. J. Grier, M.Sc., returned to Manchester after having had a most enjoyable and interesting day. Two of the directors, Messrs. W. Brinson and C. E. J. Sendall, accompanied the party.

Plymouth

Maurice & Co., chemists, are shortly removing from 19 Bedford Street to 5 George Street.

Upon retiring from the chairmanship of the Plymouth Branch of the Pharmaceutical Society and that of the Retail Pharmacists' Union, Mr. B. Shelton was, on May 23, entertained by the committees of the two organisations at a complimentary dinner, over which Mr. J. Davy Turney, Ph.C., presided.

Miscellaneous

UNLAWFUL POSSESSION CASE.—At Cardiff, on May 28, Ah Song, a Chinese subject, was sentenced to three months' imprisonment, and was fined £10, for being in unauthorised possession of 9 $\frac{3}{4}$ lb. of opium.

POISONING CHARGE.—At Woking Police Court, on May 26, further evidence was taken in the case in which Jean P. Vaquier, a French subject, is charged with murder (*C. & D.*, May 24, p. 713). The hearing was adjourned.

BURGLARY.—During the night of May 22-23, the shop of Mr. G. A. V. Latty, chemist and druggist, Brislington, Bristol, was broken into, and perfume and other goods amounting to a few pounds' value were taken. A sum of money was overlooked.

ATTEMPTED SUICIDE.—At Bath City Police Court, on May 20, Mabel B. Nation, shop assistant, was charged with attempting to commit suicide. Mr. William John Hallett, chemist and druggist, Stall Street, said the accused came to the shop and asked witness if he sold precipitate powder. Witness asked what it was for, and she replied, "The hair." In handing the girl the packet, witness cautioned her that it was a poison. There was a fatal case on record of 35 gr. being taken. The accused was discharged.

IN THE COURTS.—At Stalybridge, on May 19, Mr. Harry Howarth, chemist and druggist, was summoned for selling a bottle of wine during prohibited hours. Mr. Howarth explained that he was busy at the time and several persons were waiting to be served. A fine of 15s. was imposed.—At Marylebone Police Court, London, on May 23, Claude Stewart James Kearney, M.R.C.S., L.R.C.P., Cross Deep, Twickenham, was fined £5, with £2 2s. costs, for driving a motor-car in a manner dangerous to the public. A charge of drunkenness was withdrawn.

PHARMACEUTICAL ROTARIANS' MEETING.—A meeting of the section of Pharmacy and Allied Professions (Rotary) was held at the Town Hall, Torquay, on May 16. Mr. E. Saville Peck in the chair. Dr. Stephenson had forwarded a letter stating that he was prevented from attending, and offering to act as secretary in the place of Mr. MacLennan, who had resigned. The meeting passed a cordial vote of thanks to Dr. Stephenson for his work in organising the section, and agreed to ask him to act as secretary. It was decided to arrange for another meeting during the Chemists' Exhibition (London) in June.

PRIVATE ARRANGEMENT.—The creditors of Mr. Ephraim Woolf, manufacturer of baby soothers, 293 Hoe Street, Walthamstow, London, E.17, were called together on May 27, when it was reported that the liabilities amounted to £854 and the assets totalled £333. It appears that the business was commenced about 1915, the debtor having a capital of about £14. It was reported that a deed of assignment had already been executed to Mr. Eade, Walthamstow, as trustee. It was decided that the debtor should execute another deed of assignment in favour of Mr. W. A. J. Osborne, of Corfield & Cripwell, 119 Finsbury Pavement, as trustee, with a committee of inspection.

Irish News

Wine-Licences Appeal

At the Belfast Compensation Tribunal, recently, under the Intoxicating Liquor Northern Ireland Act, the chairman (Judge Thompson) referred to a matter that had stood over: the question in connection with the chemists' applications as to what was a reasonable reduction from gross profits to cover expenses and overhead charges (*C. & D.*, May 24, p. 715). Subject to what might be said in individual cases which were always open, they thought that probably if they deducted from the liquor sales 5 per cent., and the cost of the licence, they would get as good a general rule as could be at present arrived at, and with that assistance most of the chemists' cases coming before them could be disposed of. Mr. E. Warnock said that in the case of Mr. A. McNaught, Ph.C., Bridge End, his claim would scarcely be worth going on with on the 5 per cent. basis. It would only mean about £13. Another matter arose which had not yet been decided—the question of costs. Mr. Warnock said he would mention the matter later.—In a subsequent case Mr. T. J. Campbell said that the Act provided for all incidental expenses in connection with "settlement" of claims. That, he contended, included the payment out of the fund of claimants' costs. The Act was an indemnifying Act in which owners are compensated for confiscated property. The chairman: The Tribunal is in favour of giving costs if they had power to do so. Mr. Warnock said he could not put it further than Mr. Campbell.—The claim of Mr. W. E. Wilson, R.D., North Street, was again mentioned. Counsel for the applicant said that if the claims were dealt with on the basis of the 5 per cent. reduction in reference to overhead charges mentioned earlier in the week, it would be reduced by £141 5s. 10d. If, on the other hand, it were dealt with on the basis originally laid down by the Tribunal, that is, working it out on the proportion of his wine sales to his ordinary sales, the reduction would only amount to £102 ls. He submitted that as both methods had been suggested by the Tribunal, the applicant should be entitled to claim on the basis most favourable to him, and he handed in the figures worked out in each case. Judgment was reserved.

Brevities

At a recent inquest held at Tullamore, King's County, on Richard Waldie, aged nineteen years, a shop assistant, the jury returned a verdict of "Death from strychnine, taken by the deceased while temporarily insane."

As the result of the breaking of the reins, a donkey, driven by two boys in Wexford, dashed through the window of the medical hall belonging to Mr. J. McCormack, Ph.C., Main Street. The animal became jammed in the window, with the cart outside, and had to be unyoked and driven through the shop to the street.

Belfast

Mrs. A. W. Mann, wife of Mr. Mann, M.P.S.I., Belfast and Lurgan, opened a sale of work at Trinity College Mission, Belfast, when about £250 was raised.

The opening of the Abercorn Hospital, on May 22, by Lady Craig, wife of the Prime Minister, reflects great credit on Mr. Allen McCurdy, M.P.S.I., chairman of the Medical Charities Committee of the Belfast Board of Guardians. A gold-mounted Waterman pen, presented by the Waterman Co., was handed to Lady Craig by Mr. W. J. Stevenson, M.P.S.I., dispenser to the infirmary and hospitals, who is also the popular secretary of the Ulster Retail Drug Trade Association. Mr. Stevenson, who is also in charge of the arrangements in connection with the presentation of an autograph album to the Duchess of Abercorn, was presented to Lady Craig.

Dublin

The Right Hon. the Recorder has awarded £280 compensation to Hamelton Long & Co., Ltd., for damage by bombs and fire to the premises at 3 Lower Sackville Street, at 1 Rathmines Terrace, and at 107 Grafton Street.

Scottish News

Scottish Chemists' Bowling Association

The draw for the Ayrton Saunders trophy of the Scottish Chemists' Bowling Association, to be played for at Kirkcaldy on June 4, is as follows:—

Kirkcaldy Green

F. Stuart, Broxburn	v.	G. Jarvie, Kirkintilloch
D. Matthewson, Edinburgh	v.	C. Stuart, Paisley
G. Davie, Dundee	v.	A. G. Sutherland, Glasgow
J. Geddes, Edinburgh	v.	J. W. Bennie, Polmont.

Victoria Green

A. W. Ritchie, Montrose	v.	W. Seivwright, Glasgow
M. Stoddart, Edinburgh	v.	H. P. Arthur, Glasgow
J. A. Cochrane, Edinburgh	v.	J. Nisbet, Glasgow

West-end Green

W. Steedman, Edinburgh	v.	G. Macdonald, Glasgow
J. Carmichael, Leslie	v.	M. Wallace, Glasgow

The final of Travellers' Trophy will take place on Kirkcaldy Green at 10 a.m.

Brevities

Mr. W. J. Ogilvie, chemist and druggist (W. J. Ogilvie & Co., chemists, Invergordon), whose pharmacy in La Scala Buildings was totally destroyed by fire recently (*C. & D.*, May 17, p. 683), is now carrying on business in High Street under his own name.

Edinburgh

Dr. J. G. Tait, chemist and druggist, has been awarded the Diploma in Public Health.

Mr. Joe Robertson, chemist and druggist, Great Junction Street, Leith, won the second prize in the Spring competition of the Turnhouse Golf Club.

Mr. A. B. Beaton, chemist and druggist (Beaton's, Ltd., chemists, Gateshead), has purchased the business of Mr. G. Victor Wright, chemist and druggist, 18 Cadzow Place.

Entries for the Cumming Prize of the Edinburgh Chemists', Assistants' and Apprentices' Association must reach the secretary, Mr. James W. Laing, chemist and druggist, 85 Polwarth Gardens, not later than June 9.

Glasgow

The next meeting of the tennis section of the Glasgow Pharmacy Club will be held on June 3 at the courts in Meadowpark Street, Dennistoun.

At Glasgow Sheriff Court, on May 21, a woman named Strizauchas was fined £60, or six months' imprisonment, for preparing methylated spirit as a beverage. Defendant's husband was recently convicted for a similar offence.

At the Western Police Court, on May 20, Beatrice Keir or Andrews was sent to prison for thirty days on various charges of fraud. Defendant admitted having obtained eight bottles of chlorodyne, value £1 4s., from chemists in Byres Road without paying.

Coming Events

Wednesday, June 4

Manchester Pharmaceutical Masonic Association, summer outing to Hartington, Derbyshire. Train leaves London Road Station at 1.20 p.m. Saloon provided. Tickets (13s. 6d. each) from secretary, Mr. W. Woodhead, Church Street, Eccles.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 a.m. Council meeting.

Scottish Chemists' Bowling Association, Kirkcaldy. Annual competition for the Ayrton Saunders trophy.

Southampton Chemists' Social and Athletic Club, Hampshire County Cricket Club, at 2.30 p.m. Cricket match v. Portsmouth pharmacists. Tea served at 4.30 p.m. Tickets (1s. 6d. each) from Mr. H. J. Gay, secretary.

Friday, June 6

Royal Institution of Great Britain, 21 Albemarle Street, London, W., at 9 p.m. Lord Rayleigh on "The Glow of Phosphorus."

American Notes

By "The Man from London."

THE ANNUAL MEETING of the American Pharmaceutical Association will be held in Buffalo, during the week of August 25, 1924. The officers of the association are planning for the biggest convention ever held. An unusual number of interesting papers are to be read, and a moving picture show will be included.

CHLORINE FOR INFLUENZA.—When influenza broke out among the U.S. Army horses at Fort Hoyle, Baltimore, Md., recently, chlorine gas was successfully used as a remedy. The chlorine gas was released through water from a 75-lb. cylinder and distributed through the stables by electric fans, and while the treatment caused intense coughing and profuse nasal discharge from the animals affected, this only lasted for a short time. The next morning twenty out of forty horses treated displayed no symptoms of influenza.

THE NEW PRESIDENT of the American Pharmaceutical Association is Mr. Charles W. Holton, Newark, New Jersey, who has been active in association work for some years, and is president of Holzhauer's Drug Store, Inc., Newark. He is a past-president of the New Jersey State Pharmaceutical Association, and has served several years as secretary of the New York College of Pharmacy. The following were elected to the Board of Directors: Dr. H. V. Arny, New York City; Dr. A. G. DuMez, Washington, and Dr. H. M. Whelpley, of St. Louis.

FATAL EXPLOSION OF ETHYLENE.—An explosion of ethylene gas occurred in Baltimore Hospital on March 15, with the result that a patient just operated upon was killed. The hospital doctors say the case is without precedent in surgery, so far as they know. Ethylene gas has been used as an anæsthetic for about two years. It was stated that the administration of the ethylene gas had been followed by nitrous oxide, and a doctor was cauterising the patient's wound with an instrument having a platinum point heated to incandescence, when the explosion suddenly took place.

ADVERTISING PAYS.—Americans spend, in advertising, \$800,000,000 a year. Big as this sum is, it represents only 2 per cent. of the nation's total annual production. Does advertising pay? A recent investigation by the National Retailers' Association showed that advertised and non-advertised products, similarly priced and placed on display next to each other, sold in the proportion of 87.6 to 3.6. In only 8.8 per cent. of the tests did the customer have no preference. Moreover, when the advertised product cost more, its proportion only dropped to 62.6 to 24.2 for non-advertised goods, with 15.2 per cent. showing no preference.

MEDICINE MAKERS LOSE.—The Columbia Court of Appeals holds that the Department of Agriculture, which enforces the pure drugs law, has a right to introduce, in proceedings to condemn mislabelled goods, expert medical testimony to prove that the contentions of the manufacturer with regard to the therapeutic value of the merchandise are exaggerated. This decision reverses the verdict of a lower court in a libel case begun against a pill manufacturer where the power court refused to allow the Government to prove by medical testimony that the contentions of the manufacturer as to the therapeutic value were false, and the pill maker won the case.

NEW DISCOVERY FOR PNEUMONIA.—It is reported that Dr. Lloyd B. Felton, of Harvard Medical School, has found a treatment for pneumonia which is expected to cut the death rate from that disease by 25 or 50 per cent. Treatment is given by means of a crystalline substance which has been separated from the ordinary horse serum used in pneumonia. This substance is apparently free from the elements which in the horse serum have caused chills, fever and the so-called "serum sickness." The discovery is said to be the result of five years' research work organised by the Metropolitan Life Insurance Co. after the influenza epidemic of 1918. Dr. Felton's new discovery has been tried with satisfactory results in Boston and New York hospitals.

A BAN ON PATENT MEDICINES.—At a recent hearing before the subcommittee of the District of Columbia Committee of the House, Congressman Stanley H. Kunz, of Illinois, made an effort to include proprietary medicines with serums, toxins and viruses as subject to the provisions of the Rathbone Bill under consideration. Practically all of the witnesses in support of the Bill are doctors, and Dr. William H. Parkes, a professor of bacteriology and hygiene in the New York University Medical School, told the Committee that "efforts must be made to withstrain a flood of worthless nostrums that is being put on the market." Should the Rathbone Bill pass the medical profession in America would be in a fair way of determining what ready-made medicines should be advertised and furnished the public, which naturally would boom business among doctors considerably at the expense of the drug trade generally.

CHEMICAL EXPOSITION IN 1925.—The Tenth National Exposition of Chemical Industries, which will be held in New York, September 28 to October 3, 1925, is apparently to be the most extensive chemical and scientific exposition ever held in the United States. The aim is to secure over 500 exhibitors, the largest previous record for the American Chemical Exposition being 425. Efforts will be made to increase the number of foreign buyers of industrial chemicals and chemical equipment. In conjunction with the Exposition, many of the American chemical and associated scientific societies will hold meetings. One of the big features will be a one-week intensive course in practical chemical engineering for a thousand students of chemistry and chemical engineering from the colleges. A series of educational exhibits, showing various phases of the newer chemical developments, and the application of chemistry to the solution of numerous industrial problems, are to be worked out.

THE RIGHT SPIRIT.—The Revision Committee of the United States Pharmacopœia announced recently that standards for whisky and brandy as medicines will be included in the new Pharmacopœia now being revised. Under the national prohibition laws whisky and brandy are classed as medicines, and as such are legally prescribed by the medical profession, but at present no legal standards exist for their purity. Some opposition to the including of these stimulants was made by certain pharmacists, one, Henry Kraemer, Mt. Clemens, Michigan, claiming that the action to include whisky and brandy in the U.S.P.X. was not a dignified course for the Committee to pursue; moreover, "these two forms of alcohol are useless as medicines." In connection with this subject, William Hayward, United States attorney, stated recently that the Government had been forced to discontinue furnishing whisky for medicinal purposes to the New York hospitals because the liquor now obtained in seizures from the "rum" fleet and other sources was not fit for human consumption. Previous to this the Government had been selling selected lots of seized liquor at the nominal price of \$1 to \$4 per gallon to hospitals.

GOVERNMENT REPORT ON NARCOTICS.—According to a recent report from the Narcotic Division, importation, sale and use of narcotic drugs in the United States is on the decrease. The importation of opium, the report shows, has decreased from 471,000 lb. annually for the ten year period prior to the effective date of the Harrison Narcotic Law in 1915 to slightly less than 136,000 lb. in 1922, decreasing the per capita consumption from 36 gr. annually to approximately 7 gr., or in morphine content equivalent to $\frac{1}{4}$ of a grain. For the six months ended December 31, 1923, the importation of opium showed a considerable decrease, while the sales of the various alkaloid derivatives of opium fell off 50 per cent. over the previous six months. The importation of coca leaves has decreased about 50 per cent. in the years 1920 to 1923, and the per capita consumption of cocaine from this estimate approximates gr. $\frac{1}{4}$ annually. The decreases noted are attributed to the fact that non-habit forming synthetic compounds and preparations now on the market are replacing the habit-forming narcotic drugs, also to a more rigid enforcement of the narcotic laws.

Colonial and Foreign News

ARSENIC IN SWEDEN.—Extensive deposits of arsenic ores in conjunction with copper have been found in the vicinity of Bjurfors, in the Vesterbotten province. This is the first discovery of arsenic in Sweden, and an examination of the ores showed that some specimens contained as much as 30 per cent. of arsenic. Steps have already been taken by a financial group for the exploitation of these new deposits.

BRAZILIAN CHAULMOOGRA CULTIVATION.—The Brazilian National Society of Agriculture has received a supply of Taraktogenos Kurzii seeds, brought from India by Senhor A. de Silva Neves. Experiments in the cultivation of this valuable plant are being undertaken in the Horto da Penha, and seeds will be supplied to those interested in its cultivation, a matter of considerable importance in consequence of the prevalence of leprosy in Brazil.

TASTELESS COD-LIVER OIL.—Reference has already been made to the experiments undertaken by Professor J. Hjort with a view to eliminating the objectionable taste of cod-liver oil (*C. & D.*, April 5, p. 476). According to a report in "*Bergens Aftenblad*," these investigations have been continued in the laboratories of the Lilleborg Fabbriker in Christiania, where tests are now being carried out to establish whether this tasteless cod-liver oil can be used in the manufacture of margarine and other foodstuffs.

QUEENSLAND POWER ALCOHOL.—The Commonwealth Government has an acetate of lime factory at Brisbane which has not been in operation for some time. It is now proposed to utilise the plant for the purpose of manufacturing power alcohol from molasses, of which for the present it is expected to treat 4,000 tons, estimated to yield 260,000 gallons of power alcohol. Queensland's production of molasses last year amounted to 50,000 tons, and would, if converted into power alcohol, represent 3,250,000 gallons.

ROUMANIAN CONGRESS OF CHEMISTRY.—The first Roumanian National Congress of Chemistry will be held at Sinaia on June 15 to 17, under the patronage of the Roumanian Crown Prince. The chairman of the conference will be Dr. Peter Bogdan, Professor at the University of Jassy, and Dr. Stefan Minovici, Dean of the Faculty of Pharmacy of the University of Bucarest, will act as secretary. The conference will be divided into three sections—pure chemistry, applied chemistry and a section for the discussion of professional problems. A number of original papers and reports of conferences are down on the agenda. One of the main questions to be discussed at this congress is the invitation which is to be sent to the International Federation of Pure and Allied Chemistry to hold its annual meeting in 1926 in Roumania.

SPECIALITIES IN SPAIN.—A Royal Order, dated May 12, reminds the pharmaceutical inspectors attached to the Spanish Customs houses that after May 13 no foreign pharmaceutical specialties may be admitted unless they comply with the provisions set forth in Articles 7, 8 and 10 of the new regulations (*O. & D.*, March 1, p. 314), that is to say, only those preparations which have been duly registered may henceforth be imported into Spain. At the same time wholesalers and pharmacists are required to submit, before May 30, to the pharmaceutical sub-delegates, a sworn list of all unregistered specialties in stock. These unregistered preparations may be sold by their holders until August 31, provided they bear a special stamp, for which a fee of 2 centimos is charged, which has to be affixed to each package in the presence of the sub-delegate, and cancelled by him. After August 31 the sale of all unregistered pharmaceutical specialties will be forbidden. Persons offering for sale between May 30 and August 31 unregistered specialties not bearing the prescribed stamp are liable to a fine of 50 to 500 pesetas, one-third of which will be paid to the informer.

ALBANIAN CUSTOMS TARIFF.—Albania has decided upon a policy of protection, and has now introduced an elaborate customs tariff, based on specific duties on the weight of the chargeable goods. Some of its general provisions are not without interest; thus, when the rate of duty is less than 10 gold francs per 100 kg., the duty is chargeable on the total gross weight; if, however, to meet transport requirements, the goods are enclosed in a double packing, the duty will be levied on one packing only. Where the rate of duty exceeds the above-mentioned amount, it will be charged on the actual net weight of the goods. In the case of toilet, medicinal, or pharmaceutical preparations, drugs and colours, the containers in which these are actually put up are to be included in assessing the dutiable net weight. All medicinal supplies consigned to the Red Cross or to public hospitals are admitted duty free. The following are a few of the new Albanian customs charges, in gold francs per 100 kg.:—

Tariff No.		Gold francs per 100 kg.
79	Ginger	40
84	Saffron	1,000
85	Vanilla	700
88	Dried roots, unspecified	200
106	Cinchona wines	20
116	Linseed oil	20
117	Anise oil	25
118	Castor oil	5
120	Cod-liver-oil, natural	10
	" " emulsion	20
196b	Price lists and advertising material	50
437	Soap, ordinary	80
	" perfumed	200
	" disinfectant	80
	" coloured, or for removing stains	50
470	Soda, potash	2
475	Gum acacia	50
476	Tragacanth	100
477	Copper sulphate	free
482	Ointments and creams containing arsenic	500
483	Medicinal preparations, pharmaceutical chemicals, drugs, etc.	20 per cent ad valorem
	Quinine and all preparations containing quinine; serums; vaccines; tooth pastes and powders, and all antiseptic solutions for cleansing the teeth; neosalvarsan; male fern extract	free
484	Toilet preparations, powders, pomades, brillianlines, and perfumes	1,500
485	Eau de Cologne	1,000
486	Lotions, powders and pastes for the care of the teeth, hair dyes	500

Business Changes

THE registered offices of Hollands' Distillery (Essential Oils), Ltd., have been transferred to 4 Queen Street Place, London, E.C.4.

THE offices of "The Chemist and Druggist of Australasia" have been removed to North British Chambers, 39 Queen Street, corner of Flinders Lane, Melbourne.

MR. D. T. WILKIE, chemist and druggist, has taken over the business of Mr. D. U. Still, chemist and druggist, 9 The Village, Old Charlton, London, S.E.7.

ASCOTT'S PHARMACIES, LTD., chemists, London, N.W., have acquired the premises at 28 Queen's Road, Battersea, S.W., which they will shortly open as a pharmacy.

Mr. G. I. RUSHTON, chemist and druggist, 128 Southbank Road, Southport, is opening a branch at 125 Eastbank Street, which will be under the management of his brother, Mr. N. V. Rushton, chemist and druggist.

MR. D. TAYLOR, chemist and druggist, eldest son of Mr. A. Taylor, chemist and druggist, who was at one time in business at 35 St. Margaret's Road, Bradford, has taken over his father's business, Akroydon Pharmacy, Boothtown, Halifax.

MR. A. TAYLOR, chemist and druggist, Akroydon Pharmacy, Boothtown, Halifax, is taking over the business of his brother, Mr. John Taylor, 1 Hall Road, Eccleshill, Bradford, previously conducted by the late Mr. A. Taylor, and established in 1864.

Legal Reports

A Disputed Account.—In Shoreditch County Court, London, on May 27, Arthur Berton, Ltd., surgical dressings manufacturers, Worship Street, E.C., sued the First Aid Supply Co., Newington Causeway, S.E., to recover £16 4s. 10d. balance of account for goods supplied. Mr. Young, a director of the plaintiff company, said that since January they had received a large number of orders from the defendants, and also a number of payments, but they had not been able to agree upon a balance. They heard from the defendants' solicitors that the matter was one purely of account, so they supplied the solicitors with a complete copy of the account from the ledger, which showed the balance now claimed. Judge Cluer: The defendants' solicitors had been supplied with this full list of items, but have not troubled to sort out the receipted invoices. The judge then sorted out the whole of the receipts, which he compared with the ledger account. Frederick Fry, a partner in the defendant firm, said they had had trouble with their cashier, who had left them. They had gone into the figures carefully, and found that there was £2 10s. 10d. owing to the plaintiffs. His honour remarked that it was quite clear that, when the carman was paid, he gave a receipt, and then the plaintiffs sent along a duplicate one for the same goods. He gave judgment for the plaintiffs for £16 4s. 10d., with costs.

Manufacture of Chemicals by Gas Company.—In the Court of Appeal, London, on May 21, the case of Deuchar v. the Gas Light and Coke Co. came before the Master of the Rolls and Lords Justices Warrington and Sargant upon the appeal of Mr. J. L. Deuchar, secretary of the Castner-Keilner Alkali Co., Ltd., from the judgment of Mr. Justice Astbury in the Chancery Division (*C. & D.*, January 26, p. 115). Mr. Deuchar brought the action for a declaration that the manufacture by the defendants of any chemical or other substance necessary for the treatment or conversion of any product or residue arising from the making of gas and the erection of any factory for the purpose of such manufacture were not authorised by the company's Act of 1868, or any other Act, and were *ultra vires*. The plaintiff also claimed an injunction to prevent any such manufacture. The defendants' case, shortly stated, was that all that they were doing was to produce by electrolytic plant caustic soda and chlorine in a very limited quantity, which was not more than sufficient to treat the naphthalene which was a residual. Mr. Justice Astbury had dismissed the action with costs. Sir Douglas Hogg, K.C., Mr. Hunter Gray, K.C., Mr. Dighton Pollock and Mr. Murphy appeared for the appellant; Sir John Simon, K.C., Sir Arthur Colefax, K.C., Mr. Wilfred Green, K.C., and Mr. Andrewes Uthwatt were for the respondents. Sir Douglas Hogg, in opening the case, said that the plaintiff asked for a declaration that certain enterprises on which the defendants were engaged were *ultra vires*, and therefore could not be continued. It was conceded by the plaintiff that the defendant company might make gas. It was conceded that they might make residuals derived from and produced in the manufacture of gas, such as ammonia and tar. It was conceded that they might make the materials used in the manufacture of gas and the bodies produced from those residuals—for example, dyes made from tar; but the plaintiff said that the defendants could not start a business of making things which they used for the purpose of making residuals—for instance, they could not start a colliery business, and they could not start the business of making caustic soda to produce chlorine which was to be turned into bleaching powder, and then to sell that powder. They could not start on an enterprise of making things which were to be used in the various manufactures. Sir John Simon, on behalf of the respondents, supported the judgment of Mr. Justice Astbury. He said that one of their businesses was the conversion of gas residuals, and was one of the principal objects. It was no good saying that the respondents were simply a gas company. Counsel contended that what the respondents had done was within their existing powers. Mr. Green, following on the same

side, said that what the defendants had done was done in pursuance of one of their statutory objects. If the defendants were producing more caustic soda than they required themselves and selling it on the market, that might make a difference; but the defendants' plant was only sufficient to give them the amount required. Sir Douglas Hogg, replying on behalf of the appellant, said that it might be true that the defendants did not produce more caustic soda than they required, but in producing caustic soda they obtained chlorine, which they sold, in competition with other traders, as bleaching powder. He contended that there was nothing in the defendants' Act which by reasonable implication gave the defendants power to manufacture things which were not produced by gas or any of its residuals. The Master of the Rolls said that the court would consider its decision. Judgment was accordingly reserved.

Damages Awarded in Hair-dye Claim.—In the King's Bench Division of the High Court, London, on May 27 and 28, Mrs. Gladys C. H. Bostock, Oxford Terrace, W., claimed damages against Phyllis Earle, Ltd., North Audley Street, W., in respect of injuries alleged to have been caused by negligence in the application of Inecto hair dye at the defendants' premises. Mr. Harold Morris, K.C., and Mr. F. Van den Berg appeared for the plaintiff; Mr. J. A. Hawke, K.C., and Mr. Harold Simmonds were for the defendants. Mr. Van den Berg, in opening the case, said that Mrs. Bostock underwent the Inecto treatment on October 5, 1922. No payment was made for the treatment, as it was regarded as an advertisement. Two medical men stated that they found the plaintiff's head covered with sores. Mrs. Bostock, in the witness-box, said that her hair had been previously treated with henna. When she visited the defendants' establishment, two attendants applied a liquid with a pungent smell. The tips of the attendants' fingers became white. This liquid remained on the hair for five minutes. Mr. Quantrill, the manager, handed to Mrs. Grant, the supervisor, four small bottles, two containing a dark liquid and two containing a white liquid. The contents of three bottles—two dark and one white—were mixed in a bowl and were applied to her hair with a brush. One of the attendants said that the hair should be shampooed immediately, because Inecto Rapid had been used; but it was five or six minutes before the shampooing was carried out. No tests were made before applying the Inecto. Mr. J. K. Colwell, F.I.C., said that he had analysed Inecto Rapid. It was sold in two bottles, one containing a dark liquid and the other a white. The dark liquid was made up of paraffenylenediamene, alcohol, and ammonia; the white liquid contained a solution of hydrogen peroxide. The paraffenylenediamene was oxidised by the peroxide in the process of mixing, and a dangerous substance was formed. The use of two bottles of the dark fluid to one of the white would increase the dangers. Tests ought first to be made and twelve hours allowed to elapse before carrying out the treatment. Mr. Hawke, for the defendants, submitted that the plaintiff had failed to prove anything. The treatment of the plaintiff's hair by the defendants had been entirely without consideration. Counsel further submitted that there was no evidence of negligence. Evidence for the defence was given by Mrs. Grant and Mr. Quantrill, the latter of whom said that he had not made any tests, although pamphlets issued with the dye advised that they should be carried out in every case. It was only in about one case in 17,000 that any danger was likely to result. When he heard of the plaintiff's illness a bottle of neutraliser was sent. Sir John Collier, M.D., and Dr. William Griffiths gave evidence to the effect that there were certain people who were abnormally predisposed to skin trouble. There was no means of telling before a drug was used what the effect might be on such a person. His lordship called the attention of the jury to the Inecto instructions, which distinctly said that tests should be made on the bare skin. Inecto was a substance which might be dangerous in some circumstances. The jury returned a verdict for the plaintiff, and awarded £532 13s. 10d. damages. Judgment was entered accordingly.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

J. HUNTER SMITH & Co., LTD. (P.C.).—Capital £7,000. Objects: To take over the business carried on at 9 Virginia Street, Glasgow, by J. Hunter Smith & Co., pharmacists, chemists and druggists. The directors are: J. H. Smith and J. Murray. R.O.: 8 Glassford Street, Glasgow.

BOB MARTIN, LTD. (P.C.).—Capital £5,000. Objects: To take over the business of a wholesale dog medicine manufacturer carried on by R. W. Martin at 17 and 19 Union Street, Southport, as "Bob Martin." The directors are: R. W. Martin, Mrs. E. J. Martin and R. Martin. R.O.: 17 Union Street, Southport.

GORES, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, opticians, importers, exporters and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations and articles, etc. The directors are: A. C. Gore and T. A. Gore. R.O.: 72 Avenham Lane, Preston.

FLOROGEN Co., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of wholesale import and export perfumers, manufacturers of and dealers in perfumes, chemicals and other preparations and proprietary articles, etc. Solicitors:—Billinghurst, Wood & Pope, 7, Bucklersbury, London, E.C.2.

CROOKS' MEDICAL HERBAL STORES, LTD. (P.C.).—Capital £1,000. Objects: To take over the business of herbalists carried on by J. W. Crooks and Mary L. Crooks at 16 Chapel Street and 114 Church Street, Blackpool. The directors are: J. W. Crooks, Mrs. M. L. Crooks, W. Oldroyd, and Mrs. D. A. W. Oldroyd. R.O.: 22, Birley Street, Blackpool.

W. PROSSER THOMAS & Co., LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturing and dispensing chemists, chemical brokers, factors, pharmacists, druggists, drysalers, artists' colourmen, dealers in oil, paints, colours, brushes and painters' and artists' requisites, etc. The directors are: W. P. Thomas, J. Thomas, T. P. Thomas, and A. J. Barber. R.O.: 10 Wern Road, Ystalyfera, Glam.

H. CORNISH BARNETT, LTD. (P.C.).—Capital £100. Objects: To acquire the business now carried on by H. R. C. Barnett as the "British Crown Cork Co.," and to carry on the business of manufacturers of, agents for and dealers in Crown and other corks, stoppers, bottles, canisters and containers, etc. The directors are: H. R. C. Barnett and Miss Monica Barnett. R.O.: 108 Euston Road, London, N.W.1.

ANGLO-DANISH SOAP Co., LTD. (P.C.).—Capital £100. Objects: To carry on the business of soap makers and perfumers, manufacturers, importers and exporters of and wholesale and retail dealers in all kinds of soap, perfumery, essences, brushes, bottles and other toilet articles and fancy goods, manufacturers of and dealers in automatic scent fountains and other automatic or partly automatic machines, etc. R.O.: 49a Old Bailey, London, E.C.4.

W. BAMFORD & SONS (CHEMISTS), LTD. (P.C.).—Capital £3,000. Objects: To acquire the business now carried on by W. Bamford at 242 Yorkshire Street, Rochdale, and to carry on the business of chemists, druggists, drysalers, oil and colour men, importers and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations, etc. The directors are: W. Bamford, H. Bamford, W. Bamford, and E. Bamford. R.O.: 242 Yorkshire Street, Rochdale.

PURE WAX-PRODUCTS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in waxes, fats, oils, abrasives, spirits, perfumes and chemicals of all kinds and/or compounds and preparations thereof, preservatives for leather, lubricants, soaps, records for talking machines and all substances therefor, apparatus and component parts for wireless telephony, crystals and materials, etc. R.O.: Old Well Works, Wembley.

PARKIN, NESS & Co., LTD. (P.C.).—Capital £4,000. Objects: To adopt an agreement with T. E. Hudson, and to carry on the business of manufacturers and retailers of chemicals, disinfectants, drugs, cattle cakes, oils and lubricants, coal tar, dyes, etc. The company guarantees the payment of a debt amounting to £4,687 10s. due from the said T. E. Hudson to Chas. Page & Co., Ltd., of 37-39 King William Street, E.C.4, together with interest thereon at 6 per cent. from January 17, 1924, on the amount for the time being remaining unpaid and the punctual payment of certain bills of exchange in respect of the said debt accepted by T. E. Hudson. The directors are: T. E. Hudson, 69 Langholm Crescent, Darlington, and Mrs. S. Hudson.

BEECHAM ESTATES AND PILLS, LTD.—Capital £1,850,000. Objects: To acquire (1) Covent Garden markets and surrounding properties, comprising the Royal Opera House, the Tavistock Hotel, Bedford Chambers, various shops and premises in James Street, Floral Street, Bow Street, Wellington Street and Russell Street, W.C., and Hummum's Hotel, and (2) the business of "Beecham's Pills," now carried on by the exors. of the late Sir Joseph Beecham, under the style of "Thomas Beecham" (founded at St. Helens, Lancs.), and the American business founded in 1887, and given by the late Sir Joseph Beecham to his son, Mr. Henry Beecham, and to adopt an agreement with Sir Thomas Beecham, Bt. Powers are taken to carry on the business of manufacturers of and dealers in pills, specifics and patent medicines, manufacturers and importers of all kinds of salts, acids, alkalis, drugs, medicines and herbs, and also the business of property owners and dealers, builders, market proprietors, nurserymen, market gardeners, dealers in fruits and vegetables and provisions, etc. The purchase consideration is £2,800,000, payable as to £1,850,000 in cash and £950,000 in ordinary shares. The directors are: Sir Arthur Wheeler, Bt., Sir Arthur H. Marshall, K.B.E., P. E. Hill, and J. Burton. R.O.: Central Avenue, Covent Garden Market, London, W.C.2.

EUCRYL, LTD.—Lieut.-Colonel M. D. Methven has been appointed managing director in succession to Mr. G. Stephens Steven.

VIROL, LTD., announce a dividend of 20 per cent. on ordinary shares for the year 1923, being at the same rate as for the previous twelve months.

LEVER BROTHERS, LTD., propose to issue £5,000,000 7 per cent. Cumulative Preference shares to the holders of 7 per cent. Cumulative Preference, 8 per cent. Cumulative "A" Preference, and 20 per cent. Cumulative Preferred Ordinary shares, and to the Debenture stockholders at par, in the proportions as nearly as may be of 10 per cent. of their holdings, with a minimum allotment of ten shares. The additional capital is required in connection with the development and consolidation of the business and its associated undertakings, both in the United Kingdom and overseas.

LONDON CHEMICAL WORKS, LTD.—A meeting of the creditors of this company was held in London on May 26, when it was reported that the liabilities totalled £25,493, consisting of debentures and interest, £16,200; trade and cash creditors, £6,704; directors' and secretary's fees, £2,082; and bank overdraft, £506. According to the books, the assets amounted to £37,697. The liquidator reported that the company was registered in May 1915 with a nominal capital of £15,000, which was subsequently increased to £55,000. During the first year or two the company was fairly successful. It was decided later to increase the capital to £75,000, and the works were extended. The business then began to decline, and after manufacturing on a small scale the works were closed for a few months in 1922. It was subsequently decided to restart the works, and debentures for £15,000 were issued for cash, while the capital was increased to £85,000. Since that date there had been a loss on the trading of about £15,000. A receiver had been appointed on behalf of the debenture holders, and a petition for compulsory liquidation had been presented. No definite resolution was passed, but the petitioning creditors propose to proceed with their petition.

Chemists' Golfing Events

ON May 20, the Edinburgh Pharmacy Golf Club played a competition over Dodhead course, Burntisland, with the following results:—(1) A. McDougall; (2) A. Barrie; (3) a tie, E. Brindle and A. J. Clark.

The annual golf match between teams representing the wholesale and retail members of the Aberdeen and District Pharmacists' Club was played on Murcar course on May 21, the result being a draw:—

Wholesale		Retail	
D. Ross (Captain)	... 0	H. M. Dugan (Vice-Captain)	... 1
A. Bonner	... 0	W. G. Mitchell	... 0
J. Forsyth	... 1	Jas. Farquhar	... 0
M. C. Ross	... 1	C. A. Michie	... 0
P. Murray	... 0	John Michie	... 1
C. Hendry	... 0	M. G. Duncan	... 0
W. Garrow	... 0	A. G. Beattie	... 1
A. Smith	... 1	A. J. Ironside	... 0

The annual match for the Gibbs' challenge cup was played at Formby Golf Course on May 21. Manchester Chemists' Golfing Society, who held the cup, turned up in full force (over twenty members played), determined to fight for the honour to the last man. Liverpool, unfortunately, could not field as full a team, but put up a splendid fight, eventually losing by only 25 points. The Manchester total was 669, and the Liverpool 694. After the games the party sat down to an excellent high tea.



Photo]

[Cleworth

Centre (holding cup): Mr. G. J. Gibbs (left) and Mr. A. J. Pidd (right). Manchester team seated, Liverpool team standing.

Mr. Gerald J. Gibbs was present, having come from London specially to be able to present the eight silver replicas to the winning team. After tea the President of the Manchester Society (Mr. A. J. Pidd), on behalf of all the members, paid a tribute to Messrs. Gibbs for their generosity in providing such excellent prizes, and to Mr. Gerald Gibbs for coming from London. Mr. Gibbs briefly complimented the Manchester team on winning the trophy for the second year in succession, and said he must really compliment "the caretaker" of the cup, as it looked as new as on the day he presented it last year. The two captains, Mr. Turner (Manchester) and Mr. Fairburn (Liverpool), had a few complimentary bouquets to throw at one another, which caused much merriment. The following are the scores of the winning eight:—

T. Miller	... 91—12=79	J. A. Collins	... 87—2=85
J. H. Blyton	... 93—12=81	H. A. Travis	... 109—24=85
A. H. Turner	... 97—15=82	R. G. Edwards	... 99—13=85
T. O. Owens	... 87—3=84	H. Woodhead	... 107—29=87

The annual competition for the Scottish Travellers' trophy was held at Gleneagles on May 14, in ideal weather conditions. Over 100 players took part, the cup being won by Mr. Russell after a replay. The following were the leading scores:—*First Class*: (1) H. Russell, Stevenson, 75; (2) B. Christie, Glasgow, 75; (3) John Greig, Glasgow, 76; (4) W. Forrest, Perth, 79. *Second Class*: (1) C. A. Michie, Aberdeen, 74; (2) M. C. Duncan, Aberdeen, 79; (3) W. Stewart, Falkirk, 80; (4) S. Wood, Prestwick, 80. The prizes were presented to the successful competitors by Mr. Bayne (T. H. Smith, Ltd., Edinburgh). Mr. Gerald Gibbs (D. & W. Gibbs, Ltd.) was present and offered a cup for annual competition, as also

did Mr. Leckie (A. & F. Pears, Ltd.). Both gentlemen were accorded a hearty vote of thanks. Cordial tributes were accorded to the chairman for his services and for presenting the prizes, and also to Mr. Donald Mackenzie, Partick, for his arduous duties as secretary of this national competition.

Argentine Customs Tariff and Taxes

A NEW customs tariff came into force in the Argentine Republic on December 3, 1923. In the Argentine the majority of the duties levied on imports are based on *ad valorem* charges; however, the chargeable rate of duty is calculated not on the amounts stated in the invoices, but on official assessments of the values of these goods, and the official valuation, together with the respective *ad valorem* duty to be levied, are included in the tariff. The basis of assessment, that is to say, the official valuation of dutiable goods, was fixed in 1906, and in 1920 these assessments were increased by 20 per cent. In the new tariff the increase introduced in 1920 has been repealed, and in its place a general increase of 60 per cent. on the valuations of 1906 have been substituted. Apart from the increase in the official values for dutiable goods that is to say, an increase in the basic assessment on which the actual rate of duty is charged, the *ad valorem* rates of duty have in numerous cases been raised. Further, in addition to the actual rate of duty a surtax is charged, amounting to 2 per cent. *ad valorem* on goods for which the actual rate of duty amounts to from 10 to 20 per cent., and 7 per cent. in the case of goods where the duty exceeds 20 per cent. All imports have to bear a further charge, known as the statistical fee, amounting to 0.3 per cent. on the value of the goods as stated in the customs documents. In the case of goods which are not specified in the tariff an *ad valorem* duty of 25 per cent. will be levied, based on the value given in the original invoices. All charges are levied in terms of gold currency, but are payable in paper money at the rate of 1 paper peso=0.44 gold peso. The following goods, *inter alia*, may be imported free of duty: Chemical and medicinal products and scientific apparatus for use in the universities; specific remedies against vermin and scabies; serums for the treatment of infectious diseases, and medicinal supplies for public hospitals. The specific duties which are applicable chiefly to foodstuffs and beverages have been increased by 25 per cent.

NEW STAMP TAXES

Practically coincident with the introduction of the new customs tariff, new internal taxes, known as consumption taxes, have been introduced on alcohol and alcoholic preparations, pharmaceutical specialties, perfumes and toilet articles. These revenue taxes will be levied on all imports, in addition to the customs charges, on clearing the same through the customs. In the case of alcoholic preparations the tax amounts to 1½ centavo for each degree of alcoholic content or fraction thereof. The following taxes are chargeable on medicinal specialties: Pharmaceutical specialties, 10 centavos on each container in which they are sold to the public; veterinary specialties, 5 centavos for every 100 grams weight. Shaving soaps, tooth pastes and powders, smelling salts and bath salts, 15 centavos on each package; Cosmetics, face powders, hair lotions, eau de Cologne, articles for use after shaving, perfumed soaps, brilliantines, papier poudré, depilatories, face powders, are liable to a stamp duty of 20, 40, 80 centavos or 1 peso, in relation to the retail price, if sold at under 8 pesos per container; the tax then rises successively to 25 pesos on articles sold at 100 pesos and over. The following exemptions and reductions are provided: Soaps selling at less than 70 centavos per cake are exempt from stamp duty. Pharmaceutical specialties and toilet preparations, etc., are liable to a stamp tax of 2 centavos if the sale price does not exceed 30 centavos, and 5 centavos if it does not exceed 70 centavos. It may be mentioned that this law requires the retail price to be stated on all goods liable to stamp duty.

Birmingham Analyst's Report

THE recent quarterly report of the Birmingham city analyst (Mr. J. F. Liverseege, F.I.C., Ph.C.) contains the following passages of general interest:—

Pure Sulphate of Iron.—The pure chemical contains 45.4 per cent. of moisture, and on exposure to air some of it is lost and the drug therefore becomes stronger. The British Pharmacopœia gives no upper limit of strength, but requires it to be crystalline and a greenish colour. Before 5 per cent. of moisture is lost the chemical becomes white and powdery, and therefore would not comply with the B.P. requirements. Six informal samples contained the equivalent of 100.3 to 101.5 per cent. of pure ferrous sulphate, and were passed as genuine. About an ounce of the granular sulphate was kept in an open bottle for twenty-eight days, and during that period it lost 1.9 per cent. of moisture. When freely exposed to the air nine samples lost from 18.0 to 20.4 per cent. in about twelve days, and showed no further loss.

Quinine Sulphate.—The 1885 B.P. stated that sulphate of quinine contained $7\frac{1}{2}$ molecules of water of crystallisation, and gave a test requiring it to lose 15.2 per cent. of water on drying. The 1898 B.P. retained the description and test, and also stated that on exposure to dry air the water became reduced from $7\frac{1}{2}$ to two molecules. In the 1914 B.P. the statement of composition was retained unaltered, but the requirement of the loss of 15.2 per cent. of water was left out, though that amount is implied by the statement of its composition. None of the six informal samples contained this percentage of water, the amount varying from 4.6 to 12.0 per cent. I do not think that the statement of the B.P. that quinine sulphate loses water of crystallisation is intended to justify the use of such an indefinite substance; but owing to this ambiguity I passed the samples as genuine, though they were from 4 per cent. to 12 per cent. stronger than quinine sulphate containing the $7\frac{1}{2}$ molecules of water as described in the B.P. One wholesale miscellaneous sample contained only 4.1 per cent. of moisture. The six samples, when freely exposed in small quantities to the air, lost from 0.6 to 8.0 per cent. of water in twenty-four hours. The air-dry crystals were then dried to remove the remaining water, which amounted to 4.0 to 4.4 per cent. After exposure to the air, they regained the same amount of water as had been lost on drying. The air-dry crystals were practically quinine sulphate containing two molecules of water. I consider it would be an improvement if the Pharmacopœia authorities would prescribe a quinine sulphate containing two molecules of water, and so avoid the uncertainty of composition due to the readiness with which the one with $7\frac{1}{2}$ molecules loses part of its water. It is probable that the tendency of quinine sulphate to become stronger will account for the fact that dispensed mixtures containing quinine sulphate have been found too strong, and also for the excess of quinine found in B.P. preparations, such as the ammoniated tincture of quinine.

Tincture of Iodine.—The preparation under this name in the 1898 B.P. contains 2.5 per cent. each of iodine and potassium iodide. The 1914 B.P. gave the same preparation, but described it as "weak tincture of iodine." Nine of the thirteen samples bought as "tincture of iodine" were practically in agreement with this strength; seven of them were marked "tincture of iodine" and two of them "iodine paint." The latter term does not occur in the B.P. and is indefinite; according to various formularies, iodine paint may contain from 3 to 28 per cent. of iodine. Informal sample C.7330 was deficient of 11 per cent. of the proper amount of iodine, but a subsequent formal sample was genuine. Informal sample A.3977 contained, in addition to the correct ingredients, about 2 per cent. of potassium acetate, and the vendor was cautioned. Informal sample C.7322 was deficient of 10 per cent. of iodine and potassium iodide as compared with weak tincture of iodine. It was incorrectly labelled "Iodine paint." A subsequent sample, "weak tincture of iodine" being requested, contained 3 per cent. of iodine and 3.2 per cent. of potassium iodide, and it was labelled "Iodine paint." The vendor was cautioned. It appears to me that "Iodine paint" is too vague a term to be used unless it is qualified by some further description.

Western Pharmacists' Association

THE annual meeting of the Western (London) Pharmacists' Association was held at 192 Oxford Street, W., on May 22, the President (Mr. Harry Martin) in the chair. The secretary (Mr. J. P. Ellerington), the announcement of whose proposed retirement occasioned great regret, presented his annual report: from it we take the following passages:—

Besides the seven honorary members there are 376 names printed in the syllabus, and 30 new members have been proposed during the session. We have received during the financial year no less than 401 subscriptions, amounting to a total of £150 7s. 6d. This result is partly due to the payment last June of a number of arrears, and partly to the commendable habit of some of our members of paying a year or two in advance—one has paid up to 1927. It is also my pleasing duty to remind members that Mr. Tocher quietly, unobtrusively but always efficiently, undertakes a great deal of the clerical and routine work of the Association. . . . Coming to the meetings, we had three star performers, all of the first magnitude in their respective universes. The first was Mr. Wooleock, who gave us much information about the British chemical industry, and convinced us all that life will not be worth living unless we go early and often to Wembley. Then we had Dr. Leonard Williams, whose address on the endocrine glands held us spellbound. For this lecture we sent an invitation to the National Association of Women Pharmacists, and quite a large number of them were good enough to attend. . . . At the final meeting Mr. Woolley, the Editor of THE CHEMIST AND DRUGGIST, gave us a delightful address on "Then and Now: a Review of Changes in Pharmacy," and provoked one of the most animated discussions we have ever had.

After the President, Mr. C. A. Noble (vice-president) and Mr. J. T. Barrett had spoken with enthusiasm of the services rendered by Mr. Ellerington, the report was adopted. From the report of the social secretary (Mr. W. B. Falding), it appeared that the four social events of the year had been well attended as a whole, and that the financial result was a net loss of £7 7s., explicable by the fact that the Association's funds were in a prosperous condition and consequently no attempt had been made to budget for a profit. The report of the treasurer (Mr. H. S. Watson) showed receipts amounting to £150 7s. 6d., and payments £100 3s. 3d., bringing the total balance in hand to £171 16s. 5d. On the motion of the President, it was decided to reduce the annual subscription from 7s. 6d. to 6s. Arrangements for an outing were left to the committee. The retiring members of the committee were re-elected, as were the auditors, with thanks for past services. The sum of £10 10s. was voted to the Benevolent Fund of the Pharmaceutical Society, together with £5 5s. to the Orphan Fund and £2 2s. to the Early Closing Association. Mr. W. E. D. Shirliff, in whose hands are the arrangements for the sports to be held on Messrs. Maw's ground at High Barnet on June 18 and 19, gave an account of the various sporting activities of the Association, and appealed for additional volunteers in each kind of event. Mr. John H. Robinson (Liverpool), who was present, was welcomed by the President, and at his invitation briefly addressed the meeting. In characteristic vein Mr. Robinson advocated increased publicity, a "busman's holiday," and the exertion of all the force of personality in getting on proper terms with the public; he also reminded those present that their President had been secretary of the Liverpool Chemists' Association. The proceedings concluded with votes of thanks to the sub-district officers (responded to by Mr. B. R. Wilkinson), to the three secretaries, to the treasurer, and to the President. Mr. Melhuish, in a happily worded tribute, remarked that the President had the distinction of being known, and not in London alone, as Harry Martin: he appealed to the human, social and business instincts, and the Association had never had a more genial personality in the chair. The President, in acknowledging the vote, spoke of the good-fellowship characterising the meetings of the Association, and the "team spirit" that accounted for much of its success.

General Medical Council

THE one hundred and nineteenth session of the General Medical Council opened at 44 Hallam Street, London, W., on May 27, Sir Donald MacAlister (President) in the chair. The principal business of the first day's proceedings was

THE PRESIDENT'S ADDRESS

After a reference to the death of three ex-members of the Council—Sir Lambert Ormsby, Dr. Johnson Symington, and Dr. H. A. Latimer—the President proceeded to discuss the situation arising from the establishment of the Irish Free State. The precise bearing of the new enactments on the Medical and Dentists Acts were, he said, not easily ascertainable, but authoritative legal advice was being sought and would be laid before the Council *in camera*. "Meanwhile," continued the President,

"it may suffice to say that, 'unless the Government of the Irish Free State should formally communicate to his Majesty's Government their desire for the continuance' of the existing system, references direct or indirect to 'Ireland' in the Medical and Dentists Acts must henceforth be read as references to 'Northern Ireland' only. In other words, the direct relations and responsibilities of 'The General Council of Medical Education and Registration of the United Kingdom' will in future be restricted to Great Britain and Northern Ireland. The universities and medical corporations and the medical practitioners of Southern Ireland will no longer be entitled to representation on the Council. The medical qualifications granted by licensing bodies in the Irish Free State will no longer entitle the holders to be registered in the British Register; and so far as I am aware no provision has been made for the establishment of an Irish Council or an Irish Register. . . . A temporary continuance of existing conditions, pending the enactment of local legislation, would seem to afford at least an interim solution of the difficulty, and would offer no obstacle to the introduction by the Free State Government of a permanent measure for the regulation of medicine in Southern Ireland."

Turning to other matters, Dr. MacAlister said that the establishment of complete reciprocity with Canada had been brought nearer, and that representations made by the Executive Committee on the subject of recent Italian legislation were likely to have a satisfactory issue. On representations made by the Ministry of Health, six members of the Council had been appointed to hold temporary office in the court of governors of the London School of Hygiene. The proposed international pharmacopœia bureau was referred to in the following terms:—

"The Lord President has notified the Council that communications have been received from the Belgian Government proposing that a second international pharmacopœia conference should be held in Brussels in 1925. The purpose of the conference would be to consider questions already dealt with at the first international conference of 1902, and in particular a proposal to establish a permanent international bureau for general business relating to the unification of national pharmacopœias and kindred subjects. As Chairman of the Pharmacopœia Committee, I replied that I was satisfied that the Council would not desire that this country should be unrepresented at the second conference. But the serious nature of the questions, both of practice and of finance, proposed for discussion at the conference rendered it undesirable that the Government should bind itself beforehand to accept the conclusions that might be reached. The communications will be further considered and reported on in due course by the Pharmacopœia Committee."

Registration statistics and finance occupied the concluding portion of the address. The number of new practitioners registered in 1923 was the highest on record (2,482), including 244 in Colonial and foreign lists. In 1918 the number of students registered was 2,253; in 1919 the number rose to 3,420. As after 1919 the number of new students rapidly fell, the number of additions to the Register should soon reach the pre-war average of about 1,200. "The comparatively small number of fresh students registered in 1923—namely, 545—is no doubt attributable to the fact that, under the new Regulations of the Council, the student must now postpone his registration until, in addition to his examination in general education, he has also passed a recognised examination in elementary chemistry and physics. The next year's figures will, without question, be considerably higher, and will

represent more truly the actual numbers who are undergoing professional instruction for medical qualifications. The period of strain on the teaching resources of the medical schools and colleges is practically at an end." The aggregate income of the Council in 1923 exceeded the total expenditure by £6,177—the largest surplus on record. Leaner years are expected, but the Council has a sufficient reserve.

PHARMACOPŒIA COMMITTEE

The following were elected members of the Pharmacopœia Committee: The President (chairman), Dr. Caton, Dr. Matthew Hay, Dr. Kidd, Sir S. Russell-Wells, Sir Norman Walker, Sir John Moore, Sir Nestor Tirard, Dr. Wild.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Dialkylamino-Arylphosphinous Acids.—A method of preparing *p*-dialkylamino-arylphosphinous acids for therapeutic use by mixing phosphorus trichloride with a tertiary base (dimethylanilin; dimethyl- or diethyl-m-toluidin), followed by treatment with caustic soda. (Leopold Cassella & Co., G.m.b.H. 214,836.)

Direct Positives by Reversal.—A process for obtaining direct positives by reversal whereby the first development of the negative is effected in an alkaline bath, followed by treatment in an acid bath to dissolve the silver, and then by reduction of the unaltered silver by means of a solution of sodium bisulphite 50 c.c., sodium hydro-sulphite 10 grafs, water 1,000 c.c. (Pathé Cinéma, Anciens Etablissements Pathé Frères. 211,431.)

Synthetic Cocaine.—A process for manufacturing synthetic *l*-cocaine by resolving racemic *d-l*-ecocaine, derived from the alkali-unstable *d-l*-ecgonine, obtained on reducing tropinone carboxylic ester or the acid, into its optical antipodes by means of tartaric acid, followed by treatment with caustic soda and ether. The base thus obtained is in every respect, including optical rotation, identical with natural *l*-cocaine. (W. E. Merck, K. Merck, L. Merck, W. Merck, F. Merck, O. Wolfes and H. Maeder. 214,917.)

Synthetic Thymol.—A process for converting phenols or their substitution products into compounds containing carbon side-chains based on the reaction between a sulphonic acid of the phenol or substitution product with an unsaturated hydrocarbon of the *o*-fine series, e.g., a mixture of *m*-cresol and fuming sulphuric acid is heated to 160° C. for about two hours, then cooled to about 100° C., and propylene is passed through, followed by distillation. The main constituent of the oils obtained is thymol, accompanied by small amounts of 1:3:5-isopropyl cresol and 1:3:4-normal propyl cresol. (Howards & Sons, Ltd., and J. W. Blagden. 214,866.)

GERMANY

Egg Preservative.—A preserving agent for eggs, consisting in treating them with a 1:20 solution of a metallic soap (aluminium, magnesium, calcium or zinc, prepared with wax) in trichlorethylene. (A. Oervig. D.R.P. 390,013.)

Tyramine.—A process for the preparation of *p*-oxyphenylethylamine (tyramine) from *p*-oxyphenyl- α -aminopropionic acid (tyrasin) by heating a suspension of the latter to 230° C. in molten diphenylamine, or quinoline. (G. Zemplen. D.R.P. 389,881.)

New Hypnotics.—A process for the preparation of C.C.-substitution compounds of succinic imides, which have been found to possess pronounced hypnotic and sedative properties, such as *a.a.* phenylethylsuccinic imide and other, from substituted succinic acids. (Farbwerke vormals Meister Lucius & Brüning. D.R.P. 389,948.)

Dental Board of the United Kingdom

THE final session of the first Dental Board, referred to in our issue of May 24 (p. 722), ended on May 16. We select and group for convenience the principal features of the proceedings subsequent to the chairman's address.

RESTORATIONS

The registrar reported that the following persons had been restored to the Register:—Frederick W. Bromley, Alfred James, Hubert W. Moore.

CHARGES AGAINST DENTISTS

Several charges of unprofessional conduct or other offences were dealt with by the Board. The names of the following persons, after consideration, were allowed to remain on the Register:—Alan Wilson Fraser Stewart, Portobello ("extensively circularising"); George Gadd, 47 Harwood Road, S.W.6 (using on notepaper the letters "R.D.L.E."); Benjamin Barnato, 3 Soho Street, W.1 (using the titles "M.D., D.D.S., Foreign Degrees" and the words "Dental Surgery" on notepaper and cards). The cases of the following were adjourned to the sitting of the new Board in November: Herbert Vincent Fisher, 132 Bebington Road, Rock Ferry (convicted of a misdemeanour); Hyman Hoosha, 1 Commercial Street, E., and several other dentists at various addresses (exhibiting words "in size and quantity greatly in excess of anything required for legitimate professional purposes"); in one case it was announced that, if there was nothing to which exception could reasonably be taken in November, the respondent might not be troubled further in the matter. A complaint against Charles Hollingsworth Smith, 4 The Broadway, Hammersmith, W.6, of having made a false statutory declaration was dismissed. It was found that the names of Harold Walmsley, Prestwich Park S., Manchester, and Abraham Frank, 201 High Street, Shoreditch, E. (the latter a "covering" case) ought to be removed from the Register; and the registrar was directed to erase the names of Bert Lockyer, 59 King Street, Fenton, Stoke-on-Trent, and Reginald Owen Bird, 3 Nicholson Road, Croydon, the entries having been incorrectly made. Vincent Andover Wills was summoned to answer a charge of (1) advertising his practice on the front page of an almanac, copies of which were given away, and (2) using in the advertisement the letters "R.D.S." to which he was not entitled. The Board found the charge proved, but allowed the name of Mr. Wills to remain on the Register, he giving an assurance that he would not "in any way transgress again." Mr. Wills asked if he was precluded from using labels on bottles of medicine bearing his name and the words "Chemist, M.P.S. and Dental Surgeon." The chairman informed him that he would be well advised to discontinue this practice.

THE SEAL READY

It was reported that the seal of the Board had been completed, and would, in future, be attached to formal documents.

PROPAGANDA

The following recommendations of the Propaganda Committee were adopted:—

(1) That the Board of Education be invited to receive a deputation from the Dental Board with reference to the institution of suitable instruction in oral hygiene in primary and secondary schools.

(2) That, when the Royal Commission on the National Insurance Acts has been appointed, evidence should be given before the Commission on behalf of the Board with reference to the need of extending the present provision of dental treatment under the Acts.

(3) That authority be granted for the initial expenditure of a sum not exceeding £50 on the purchase of suitable films.

The Committee also suggested "talks" by wireless on dental matters.

APPROVED SOCIETIES AND THE CHOICE OF DENTISTS

The Secretary of the Public Dental Services Association forwarded a memorandum in which reference was made to a circular of the Ministry of Health dated August 1923, paragraph 6 of which is as follows:—

Societies do not in all cases allow their members free choice of a dentist, but their arrangements must be such as to enable members to obtain treatment within reasonable distance of their homes. Subject to this it is for each Society to decide whether it will make payment in respect of treatment by any registered dentist of the member's choice or only in respect of treatment by a dentist on a list of dentists with whom it has entered into special arrangements.

The Yorkshire Branch of the Public Dental Services Association submitted a form of agreement with co-operative societies for approval. Consideration of these matters was postponed.

My Old Specie Jars

HE was an old-fashioned chemist in an old-fashioned village—at least it was so when he started there some twenty years ago, and the voice of the jerry-builder was not loud in the land—and in his window stood the three specie jars. Beautiful jars they were, half as high as himself, and, like himself, relics of a by-gone age. Across their portly fronts in glittering gold and colours shone the Royal arms, and in addition elaborate scrolls bearing the magic titles, "Rhubarb," "Magnesia" and "Soda." Domed lids they had of burnished gold in which countless small boys had viewed their "shining morning faces," enraptured with their distorted reflections. He was, as I said, old-fashioned; he would have styled himself a "chymist" in preference to the modern word had not the counsel of his friends prevailed; like O. Henry's druggist, he made his own pills and percolated his own tinctures, and every day he dusted his beloved specie jars. Nothing else with the exception of some carboys of coloured water adorned his window; he scorned the ideas of the modern man. Each year saw the ranks of his like grow thinner and thinner, and each year his pride grew greater; soon, he would say, I shall be the only real chemist left.

Several times of late he had heard through his open doorway exclamations of surprise from poor ignorant passers-by who had suddenly realised his calling, and once—but whisper it—he had threatened the ears of a small boy who had entered and requested a hair-cut! This is a pharmacy, he would say; you will find a drug-store lower down.

To-day there is no look of pride upon his face, gone is the sunshine; disconsolate he walks towards his open door, hesitates, and with bowed head walks back again. Why this change? you will ask.

Listen! For twenty years those specie jars had stood in his window, for twenty years before they had stood in the window of his erstwhile master, and possibly some twenty years earlier some cunning hand had painted and gilded them with a master touch—and now they must go. The edict has gone forth—the powers that be have pointed out to this disciple of Galen that he is breaking the laws of the land—that by displaying the Royal arms he is misleading the public, giving them the impression that he holds a Royal warrant for the supply of rhubarb, magnesia and soda. Quite kindly they point this out to him, no accusation that he is wilfully offending; only a polite demand that he must deface or remove the jars. Kings and queens come not his way, and so his beloved jars must go.

Yesterday he owned a pharmacy, to-day but a chemist's shop, to-morrow, possibly, a drug store. Sic transit gloria mundi, and the specie jars.

F. C. MATHEWS.

THE annual convention of the British Federation of Confectioners' Associations, meeting at Blackpool on May 24, referred to its executive committee, after discussion, a suggestion to institute protected prices for proprietary articles.

Pharmaceutical Botany

LIX. Caprifoliaceæ and Cucurbitaceæ

THE members of the *Caprifoliaceæ* are mostly trees or shrubs with decussate leaves and with flowers in cymes. The floral organs are usually in fives (pentamerous), stamens epipetalous, and ovary inferior. *Sambucus nigra* (Linné), the common elder (Fig. 188) is a true native to this country which is remarkable for the rapid growth of its young shoots (having an unusually large pith, which is used (after drying) in practical botany for embedding specimens to be cut into sections). Its dark-green leaves are compound with five to seven imparipinnate segments, each segment being two to three inches long. It flowers in early summer, producing corymbose cymes five or six inches across. The primary peduncle has five branches which subdivides several times (by fives, fours or threes) until each slender furrowed pedicel ($\frac{1}{4}$ in. long) ends in a single flower. The calyx is adherent to the ovary and has usually five small teeth. The white or cream-coloured corolla possesses only a short tube, but has five spreading limbs (Fig. 189 (1)). The stamens, with yellow anthers, alternate with these, and the filaments are attached at their base to

to suit their own requirements, and not for convenience of classification. These tendrils have pits in their cell



FIG. 188.—*SAMBUCUS NIGRA*.

the corolla tube. The sessile stigma has three to five lobes. The inferior ovary ripens into a black berry, or rather a berry-like drupe, with three seed-like stones, each containing one seed.

The elder flowers of commerce consist of corollas with attached stamens obtained by placing the inflorescences in heaps for a few hours, when they drop off from their stalks and are used fresh for the preparation of elder-flower water (*aqua sambuci*) or are pickled with salt. Both the flowers and the water distilled from it become more pleasant to smell on keeping. The fragrance of the flowers is due to volatile oil (0.3 per cent.), which is a yellowish unctuous solid at ordinary temperatures. *Ol. viride* is oil coloured with chlorophyll made by digesting fresh elder leaves in warmed oil. To prepare *ung. sambuci viride* the oil is replaced by melted lard. Elder leaves contain a purgative resin, an alkaloid (*sambucin*), and a cyanogenetic glucoside (*sambucinigrin*) analogous to amygdalin, but they are only used as ointment or oil (see above).

The *Cucurbitaceæ* are usually climbing annuals remarkable for the rapid growth of their soft succulent tissues, which consist of about 90 per cent. of water. Thus stems are not self-supporting, but sprawl over the ground or climb by means of tendrils and are killed by frost. The tendrils have been classed as roots, stems, leaves, stipules, shoots, flower stalks, and lastly as organs *sui generis*, which merely proves that plants develop organs

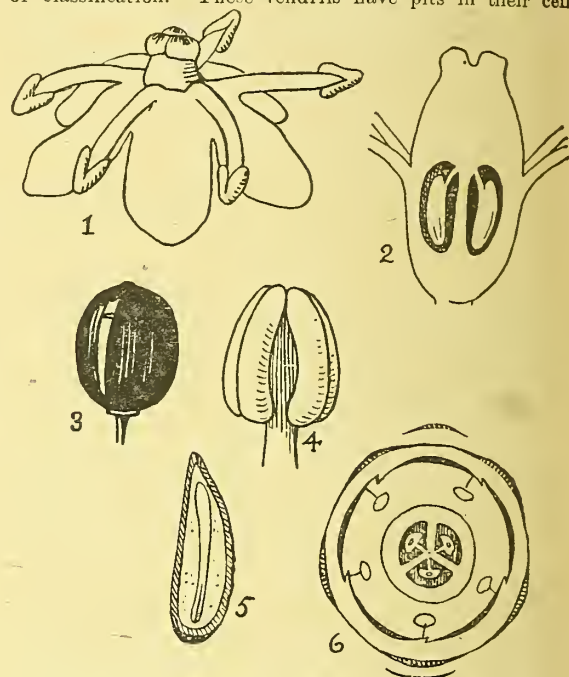


FIG. 189.—FLOWER, FRUIT, AND FLORAL DIAGRAM OF ELDER.

(1) Flower with epipetalous stamens and sessile stigma. (2) Ovary in section showing pendulous ovules. (3) Berry-like fruit. (4) Anther. (5) Seed in section. (6) Floral diagram.

walls into which the cell protoplasm enters, and are known as tactile pits, because when such a thin wall comes into contact with a support the tendril turns



FIG. 190.—*BRYNIA DIOICA*.

(A) Climbing stems with palmate leaves and tendrils. (B) Female flower in section. (C) Corolla of staminate or "male" flower, spread out, showing stamens with sinuate anthers in three groups, of which two are paired and united stamens. (D) Corolla of pistillate or "female" flower, opened out, and showing staminodes.

around it. The flowers are typically pentamerous, but show adhesion on stamens as well as corolla and calyx,

while they are monosporangiate (so-called unisexual), stamens and carpels being in separate flowers. The ovary is inferior, with three parietal placentas.

Bryonia dioica (Jacquin), the white bryony (Fig. 190), grows commonly in hedges in the South of England. It has a large underground perennial root-stock, consisting of a tuberous rhizome merging below into and continuous with a thick fleshy root which may divide into two descending portions. The annual stems springing from this rhizome grow to a great length, climbing by means of tendrils, which at times change their direction of twisting. All the aerial portions are covered with rough hairs. Root stems and leaves contain an acrid

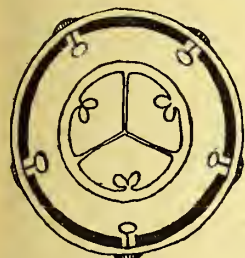


FIG. 191.—FLORAL DIAGRAM OF WHITE BRYONY

juice with a nauseously bitter taste. The palmate leaves are three to seven-lobed, the terminal lobe being the largest. It flowers in summer. The staminate flowers are in clusters, with greenish-yellow flowers with somewhat bell-shaped veined corolla. The stamens are curiously united and have sinuate anthers (see Fig. 190 C). The female flowers are smaller, and generally in twos. Each has an inferior globular ovary with three loculi (Fig. 190 B).

This ripens into a scarlet berry containing several flattened ovoid seeds. The specific name indicates that the "male" and "female" flowers are on different plants, but this is not always the case. Bryony root is now little used, except in some parts of the country in the fresh state for applying to bruises. It may be met in the pharmacy in the form of slices of dried root about $\frac{1}{4}$ in. thick and 1 in. to 2 in. in diameter. The fresh root collected in autumn is white and fleshy, with milky juice, and pieces may be 3 in. or more in diameter and up to 2 ft. long. The acrid resinous principle is known as bryoresin, while a glucoside bryonin is also present. The action of these is similar to colocynth and jalap, the tincture being an irritant hydragogue cathartic, and diuretic.

Personalities

MR. HENRY S. WELLCOME has been elected a member of the Athenæum Club.

MR. G. STEPHENS STEVEN, late managing director of Eucryl, Ltd., Southampton, has joined the Crown Cork Co., Ltd., London, E.C.2.

THE gold medal of the Linnean Society has been conferred on Professor William Carmichael McIntosh, F.R.S., M.D., D.Sc., St. Andrews.

BRO. H. N. DICKINSON (Henry N. Dickinson, Ltd., chemists, Eltham; London, S.E.9) was installed, on May 28, Worshipful Master of the North Star Lodge. Several brethren connected with the drug trade were present.

COUNCILLOR ALBAN ATKIN, M.P.S., West Hampstead, London N.W., has been appointed one of three representatives of the local borough council to co-operate with medical and other bodies on the subject of propaganda regarding cancer.

MR. W. J. BARNES, chemist and druggist, who has been elected an alderman of Dover, was formerly in business in the town. He entered the Town Council in 1886 and has been a member of that body ever since, holding the office of Mayor in 1900.

DR. FREDERICK B. POWER, director of the Phytochemical Laboratory in the Bureau of Chemistry of the United States Department of Agriculture, has been elected a member of the (U.S.A.) National Academy of Sciences. Dr. Power was director of the Wellcome Chemical Research Laboratories in London from 1896 to 1914.

Births

Notices for insertion in this column must be properly authenticated.

BOYNE.—At 232 Ferry Road, Leith, on May 22, the wife of A. M. Boyne, chemist and druggist, of a son.

PEEBLES.—At 29 Armthorpe Road, Sheffield, on May 21, the wife of Thos. S. Peebles, M.P.S. (Wm. Fox & Sons (Sheffield), Ltd.), of a son.

Marriages

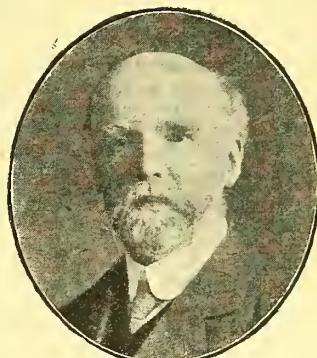
MICHIE—HILL.—At St. Luke's Church, Caversham Road, London, N.W., on May 25, by the Rev. F. A. Elliott, Walter Scott Michie, son of Mr. C. Coutts Michie, J.P., chemist and druggist, Brookfield Park, N., to Teresa Margaret, only daughter of the late Mr. W. C. Hill, dentist.

NYE—COVERDALE.—At St. Paul's Church, Mill Hill, London, N.W.7, on May 24, Gerald Launcelot Nye, M.P.S., Wansford, 29 Hale Lane, Mill Hill (Allen & Hanburys, Ltd.), to Emily Kate, youngest daughter of Mr. T. C. Coverdale, Withernsea, Yorkshire.

Deaths

GODKIN.—On May 19, Mr. Ralph Stanley Godkin, son of Mr. A. A. Godkin, chemist and druggist, 1 High Street, Tunbridge Wells, aged eighteen.

REID.—In an Aberdeen nursing home, on May 19, Mr. William Reid, retired chemist and druggist, aged sixty-seven. Mr. Reid served his apprenticeship to Mr. Andrew Ross, Aberdeen, who was an expert photographer. On the completion of his term of service he went to South Shields, where his intimate knowledge of photography attracted the attention of Mr. (afterwards Sir) Joseph Swan. Sir Joseph subsequently offered Mr. Reid the management of Mawson & Swan's photographic business at Newcastle; but he preferred to remain in pharmacy, and after qualifying in 1879 and acting for a brief period as manager in a Sheffield pharmacy he commenced business in Holburn Street, Aberdeen, in 1880. Of a quiet and retiring nature, he took no part in public affairs; he was keenly interested, however, in the welfare of pharmacy, and was an active member of the Aberdeen Pharmaceutical Association for more than forty years, filling at various times the offices of President, secretary and treasurer. In 1899 Mr. Reid sent us photographs of a revolving poison cupboard invented by him, which we described and illustrated (*C. & D.*, I, 1899, p. 812). He retired at the close of 1919, and was elected an honorary member of the Aberdeen Pharmaceutical Association. A brother and a sister survive him.



MR. W. REID

Wills

MR. WILLIAM THORNER, chemist and druggist, 63 Hawkeshead Street, Southport, who died on March 1, left estate of the gross value of £7,952 15s. 8d., with net personalty £7,721 1s. 5d.

MR. JOSEPH JOHN CHAPMAN, Ph.C., 88 Audley Road, Hendon, London, N.W., who died on March 31, left estate valued at £304 18s. 5d. Probate has been granted to his widow, Mrs. Alice Chapman

Trade Notes

GILLETTE RAZORS AND BLADES are offered with a bonus by Osborne, Garrett & Co., Ltd., through Sangers, 42A Hampstead Road, London, N.W.1.

EDWARDS & DAWSON, 72 Tredegar Road, Bow, London, E.3, have been appointed sole distributing agents for Professor Ehrlich's medicines. Price lists are obtainable.

JOHN MACKAY & Co., LTD., 4 Canning Street, Edinburgh, have bought the old-established business of A. Batty & Co., manufacturers of calves' feet jelly and other food products, Calton Road, Edinburgh.

MORMITT.—S. H. Morden & Co., Ltd., 18 Dartmouth Street, London, S.W.1, have produced a moth killer which is claimed to be clean and effective and to leave no smell in the clothes. Its name is Mormitt.

ASHES OF ROSES BABY POWDER.—A. Bourjois et Cie, Ltd., 4 Water Lane, London, E.C.4, are offering a new line, the Ashes of Roses Baby Powder. The tins, enamelled in green and gold, retail at 1s. each.

NAPHTHALENE BALLS in cotton net bags are advertised in this issue by Edwards & Gritton, 36A Plumstead High Street, London, S.E.18. The convenience of this method of packing for the retailer and the public will be appreciated.

BURGE, WARREN & RIDGLEY, LTD., 91 and 92 Great Saffron Hill, London, E.C.1, have overcome the disorganisation occasioned by the recent fire at their premises. The company inform us that all departments are in full running order again.

BORACIC SOCKS.—R. H. Allen & Co., manufacturing chemists, Sydenham, London, S.E.26, offer boracic foot socks in two varieties, the "Bull Dog" retailing at 4½d., and the "Speedwell" at 6½d. Particulars are given in the firm's advertisement.

HUGH STEVENSON & SONS, LTD., whose Summerstown works recently suffered damage by fire, have now arranged for the manufacture of seamless ointment and pill boxes at their Manchester works, so that full supplies of these boxes will be still available.

PATENT PHOSPHATES & MERCHANDISE, LTD., of 6 Fennel Street, Manchester, have been appointed sole agents for the United Kingdom and the Irish Free State for Zauberin and Aktivin, manufactured by Chemische Fabrik Pyrgos, Radebeul-Dresden. Samples and prices of these products will be sent on application.

PEARS' VANISHING CREAM.—A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C.1, have placed on the market a new vanishing cream attractively packed in opal jars with tinted aluminium covers. The vanishing cream is packed in boxes of one dozen, and with each box is sent a display stand upon which three jars can be placed. The retail price is 1s. 6d. a jar.

LYSOL.—Cuxson, Gerrard & Co., Ltd., Oldbury, near Birmingham, are supplying a series of showcards and window bills to advertise the Sanoid brand of lysol which they manufacture. The set of advertising material, which makes a complete window display, is in colours and concisely worded so as to attract the attention of the public.

PISTANY MUD COMPRESSES.—The Pistany Radio-Active Mud Dépôt (Chr. Hansen's Laboratory, Ltd.), 77 St. Thomas' Street, London, S.E.1, have introduced to our notice a new method of applying the Pistany radio-active mud. The ordinary method of using the mud is to make a poultice of it, but the universal compresses are an improvement on this, and should popularise the use of the article. The mud in powder form is sewn into a flat linen bag of a peculiar shape that makes the compress fit any part of the body. Before use the compress is immersed in hot water, the temperature being varied according to the complaint which is being treated. The compress has a large number of uses, which are fully described and illustrated in the instructions. The compress, which is packed in a pyramidal carton, retails at 25s.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1924, p. 289.

(From "The Trade-marks Journal," May 14, 1924.)

- "CIELA"; for photographic chemicals, etc. (1). By J. F. Carrie, Avenue de Petrarque, Carpentras (Vaucluse), France. 442,056. (Associated.)
- "G.M." on star device; for chemicals (1). By The Graesser Monsanto Chemical Works, Ltd., Cefn, Ruabon, N. Wales. B444,656.
- "MERTONIA"; for chemicals (1) and (2). By W. Harland & Son, Phipps' Bridge, Merton, London, S.W.19. 446,226. (Associated.)
- "NEOMERPIN"; for all goods (1). By Chemische Fabrik Pott & Co., Priessnitzstrasse 39, Dresden, N., Germany. 446,807.
- "ENVAROX"; for chemicals (1). By The Envarcol Co., 89 Dawlish Road, Leyton, London, E.10. 447,211.
- "THE BIG SEVEN"; with circular device, including figure 7 and electric light bulb ("The Big Seven" and "7" disclaimed); for fertilisers (2). By Fred Chester's Fertiliser Co., Ltd., 13 Hamilton Square, Birkenhead. 444,193.
- "NUJOL"; for all goods (2). By Standard Oil Co., Constable Hook, Bayonne, New Jersey, U.S.A. 446,535. (Associated.)
- "LULLY"; for medicines (3). By E. Lilly & Co., 210 East McCarty Street, Indianapolis, U.S.A. B442,141.
- "ADCO"; with device of triangle and wreath, with words "The Sign of Purity"; for medicinal chemicals (3). By The Auckland Drug Co., Ltd., 32 Fanshawe Street, Auckland, N.Z. 443,742. (Associated.)
- "BELTONA"; for liniment (3). By E. Belton, 71 High Street, Hoddesdon, Herts. 446,335.
- "DESEMINA"; for medicinal chemicals (3). By W. G. Moore, 5 Hadlow Road, Sidcup, Kent. 446,618.
- "STABISMETOL"; for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 446,769. (Associated.)
- "KWENSHORA"; for lemonade crystals (42). By White, Tomkins & Courage, Ltd., 48 Mark Lane, London, E.C.3. 446,438.
- "LEMDASH"; for essences, etc. (43). By Stevenson & Howell, Ltd., 95A Southwark Street, London, S.E.1. 446,523. (Associated.)
- "JURY"; for all goods (47). By Europe & Asia Trading Co., Ltd., 514 Salisbury House, London Wall, E.C.2. 445,957.
- "APRES L'ETE"; for all goods (48). By Elizabeth Arden, 25 Old Bond Street, London, W.1. 443,760.
- "PARACRYSTAL"; for a hair preparation (48). By E. C. Presland, 77 Skinnergate, Darlington. 444,205. (Associated.)
- "TRIOMPHE DE PLEVILLE"; for all goods (48). By Nyal Co., Ltd., 11 Great James Street, Bedford Row, London, W.C.1. 446,260.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

- | | |
|--|--|
| A/275. Adams' Cough Pastilles | M/275. Gainsborough puff |
| R/275. Bazzi Bianchi Phenendescoscone, original make, Pat. No. 14059 | N/127. Mixture, Anthelmintic (Chapman) |
| E/205. Bio Chemico (made by Luyties, of St. Louis) | C/275. Mntax Olive Oil Shampoo |
| H/275. Dr. Lumley's Facial Soap | P/275. Permagin |
| M/275. "Ellemin" enema | R/245. Petroleum jelly, packed by R.M.S. |
| | E/245. Pinolin Resin Spirit |
| | R/245. Spectrol |

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

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| Banana flour. B/215 | Houbigant perfumes. C/245 |
| Boroverin. R/275 | Kelsey's Seasickness Remedy R/275 |
| Daynett brushes. H/205 | Novasul. A/255 |
| Du Barry's Revelenta Food. D/245 | Oat flour. B/215 |
| Floradew. H/205 | Secca cachets. R/275 |
| Gayetty's toilet paper. R/275 | Thyroxine. P/215 |
| Gorgon fly-catchers. R/275 | Wooden sample postal boxes. T/195 |
| Harrower specialities. M/215 | |

Observations and Reflections

By Xrayser II.

The Council Election,

as I anticipated, proved a very hollow affair, though a larger proportion of the electorate voted this year than last. Still, 4,659 out of 10,773 is a poor show. Mr. Lawman's defeat is a great disappointment; I sincerely hope he will try again with better luck. Our official journal attributes the paucity of votes to the contentment of the trade with things as they are. That would seem, if true, to mean that we are a good deal less content this year than we were a year ago, but as a matter of fact the indifference of the craft as a whole to these elections has been deplored ever since I joined the Society in 1866: your columns used, years ago, when complaints of the Society's policy or want of policy were loudest, to be full of reproaches of the apathy shown: correspondents denounced, orators rebuked, poets bewailed it, but all to no effect. (Your poets, by the way, have all fallen silent: I suppose "no lark could pipe to skies so dull and grey" as ours now are.) Mr. Wolff's defeat is the more noticeable, because he was one of the pack that hunted together: I could almost wish that as a rebuke to that vicious practice another of them had been thrown out: perhaps the defeat of one will, as you hope, be sufficient to kill the practice.

The Pharmaceutical Society

appears (if I may venture to say so) to have dined not wisely but too well on the occasion of its eighty-third anniversary. A dinner that cost the diners twenty-five shillings each either was or ought to have been better than the occasion demanded; and this appears to have been the opinion of others besides myself, for I notice that the attendance at the dinner was not much more than half that at the recent dinner of the North Londoners, for which the tickets were only twelve and sixpence. These are perhaps rather sordid considerations, but after all a dinner is mainly a matter of what the sacred poet elegantly terms "creaturely supplies," and is one, therefore, that may appropriately be assessed in terms of the currency. I do not know that "the feast of reason and the flow of soul" that accompanied or followed these two meals differed sufficiently in quality to account for the difference in cost, and indeed I shrink from anything like a comparative valuation of such high matters as these: "the lore of nicely calculated, less or more" would be impertinent here. I do, however, venture to say that in the present condition of things (we are passing, as the President says, through hard times, and the state of the Benevolent Fund reflects the fact) the Society was a little extravagant in its charge for what, when all is said, is only "a pleasant function" of no practical importance.

The Most Important Feature

of the dinner, at least to those of us who were not there, was undoubtedly the President's speech. The compliments paid to the Society by Sir Maurice Hankey were pleasant enough, but such things count for little; official speeches and official acts do not always tally, and the President's reply made sufficiently plain the difference between soft words and the buttering of parsnips. In spite of the amicable, not to say affectionate, relations of the Pharmaceutical Society and the departments of Government with which we have to deal, the fact remains that practically we get scant justice from most of them and are ignored or flouted by others. Even at this dinner we were semi-officially told that in our (surely modest) demand that dispensers in the Army should be men "trained in pharmacy" we are asking for what we are not likely to get. In short, the professions of goodwill so profusely made by Government officials at these functions are subject to very serious discount, and our attitude towards the departments concerned is the more important matter of the two. Mr. Neathercoat showed unmistakably his dissatisfaction with the existing state of things in several particulars, but he did not speak half strongly enough with regard to them.

To say, "I think I should be right in saying that only a small percentage of the traffic in dangerous drugs comes within the purview of the practice of medicine and pharmacy" is to speak with lamentable feebleness, and to "rather wish that he could discern some kind of a gesture" favourable to us is to make but a poor joke of what is in truth no joking matter.

The Demands of Courtesy,

of course, handicapped the President in these utterances, and he feels, no doubt, much more strongly than he spoke, which only shows that a social function of this kind is hardly the occasion for discussing seriously our relations with our masters, especially if the latter are represented at our table. Mr. Neathercoat ought, perhaps, to be praised for his courage in so much as hinting at our grievances, and for doing it as tactfully as he did. It is something also to have the fact brought home to us that we are suffering from a virtual despotism, tempered only by after-dinner speeches. Let us hope that any conciliatory effect this speech may have had will not share the proverbial fate of friendships made in wine, and that the Council's attitude will in future be a little firmer, both in resistance and in demand, than Mr. Neathercoat's was on this occasion. There is, however, too much reason to fear that he did but reflect the habitual attitude of the Council. On one point, at least he showed a strange lack of comprehension of what we have a right to expect from our leaders. He spoke strongly and at considerable length of the public ignorance of the Society's work, but who on earth is to blame for this but the Society itself? Why does not the Society make itself and its work more generally known? Why, for instance, was neither this annual dinner nor the meeting that followed reported in my daily paper? The Quaker's meeting at Llandrindod was noted and commented upon on two successive days, but not a line of reference to ours appeared. If we keep our light under a bushel it is absurd to complain that nobody sees it.

The Annual Meeting

was very badly attended; in fact, the number of those who signed the attendance-book was farcically small—sixty-four out of 11,554, or rather more! The President's address presented no features of importance; much of it indeed was, as he confessed, "common form," and the rest for the most part only what he was almost bound to say. On one point he made a statement that everybody will welcome. The library and museum are to be "tackled," and something is to be done towards remedying what is at last felt to be their unsatisfactory condition. I remarked recently upon the neglect into which the library appears to have fallen and the failure to provide it with a permanent head at a suitable salary. The two offices of librarian and curator are now to be joined, and if a competent man is selected the management of both branches of his duty should not be too much for him.

The Most Obvious

moral of the foreign prescription case under the Dangerous Drugs Act (*C. & D.*, May 24, p. 718) is that it is foolish to dispense any prescription concerning which there is reasonable ground for doubt. A plea of good intentions and care is useless in such a case. It may be a hard case, but the magistrate holds that he has no choice but to convict.

The Statement

made by the chairman of the Dental Board that "very special consideration" is paid to the cases of ex-Service applicants for registration is hardly borne out by the Board's refusal to allow Mr. A. J. Binns to sit for examination (*C. & D.*, May 24, p. 717), and the strong remarks of the Lord Chief Justice upon it. His lordship evidently differs from the Board as to the meaning of "consideration" (which is, indeed, a somewhat ambiguous term); he was very emphatic in his condemnation of the Board's action, and disposed curtly of their counsel's contention that service for a few days is no service at all.

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Editorial Articles

The Finance Bill

THE Finance Bill, which is now on its way through Parliament, has just been printed, and as the political omens do not point to any serious amendment being made in it, a short review of its provisions may now be usefully made. The more striking of the changes it embodies are to be found in Part I of the measure, which deals with the so-called breakfast-table duties, the table waters duties, the McKenna duties and the entertainments tax. The tea duty, which, like the income tax, is a yearly impost, is fixed for the tax year beginning May 5, 1924, and ending August 1, 1925, at fourpence on the lb., or half that in force under the Finance Act of last year. The duties on cocoa, coffee, chicory, coffee substitutes and sugar are also reduced under the Bill. The peculiar position of sugar as regards excise duties is brought out by clause 5 of the Bill. A reduced scale is fixed by the clause and schedule for the excise duties, drawbacks and allowance in respect of sugar, molasses, glucose and saccharin. But as all duty of excise previously payable on sugar and molasses made from home-grown materials was taken away by section 6 of the Finance Act, 1922, the new scale contained in the Bill will in practice apply only to sugar made in this country from foreign-grown materials. The incongruity was probably too unimportant to provoke the attention of the Chancellor. Clause 6 does away with entertainments tax on payments for admission of sixpence

or under, and reduces the rate of tax in the case of higher payments for admission. After passing over the yearly re-enactment of the war-time increased medicine duties in clause 7, we come to clause 8, which, with an appearance of unpretentiousness which seems rather out of place, provides for bringing the McKenna duties to an end as from August 1 next. Clause 9 provides for the removal as from August 1, 1924, of the duty on herb beer and for the reduction of the duty from 4d. to 2d. per gallon upon other table waters. Clause 10 reflects the recent movement for the suppression, or at least curtailment, of the traffic in methylated spirits for beverage purposes. Under it the Commissioners of Customs and Excise are given a much freer hand than they had before possessed in fixing both the nature of the denaturants and the quantities to be used in making methylated spirits. At the same time sub-clause (3) will have the effect of bringing finish and finish mixtures under the control of the Commissioners. Clause 11 provides for the granting of drawback on blended tea exported, and clauses 12 and 13 represent concessions of a very minor kind to beer dealers and brewers in respect of beer. The next provision of any moment is that contained in clause 15, which allows the repayment under certain circumstances of the licence duty chargeable on mechanically-propelled vehicles, the change to come into operation on January 1 next. The next portion of the Bill deals with income-tax and inhabited house duty; and as regards each of these the attitude of the Chancellor was, as might be expected, in sharp contrast with that of his predecessor. Mr. Baldwin reduced in last year's Budget the income-tax and tinkered at the inhabited house duty. Mr. Snowden leaves the income-tax in all its crushing integrity, but takes it upon himself to wipe out the inhabited house duty altogether. The latter, it may be observed, was a tenant's tax, which fiscal purists always found it difficult to justify. Clause 18 widens the concession made by the Finance Act, 1920, which allows a deduction for income-tax of a sum supposed to cover the expenditure incurred by a widower or a widow on someone employed to look after children. Clause 19 makes provision for an appeal from the decision of the Commissioners of Inland Revenue on questions of domicile, ordinary residence and residence within the meaning of the income-tax Acts. Clause 20 might be looked upon as a domestic provision of the civil service, dealing as it does with the assessment of war bonuses. Clause 22 represents a rather serious innovation on income-tax procedure. Under it any income-tax due and payable under an assessment for less than £50 may be sued for and recovered by an income-tax collector in a police court. In the final Part (III) of the Bill two innovations of importance appear. Clause 25 does away as from June 30 next with the much decried corporation profits tax; and clause 26 grants an important exemption from receipt stamp duty. In future no receipt stamp need be put upon any receipt given for any salary, pay, wages, or other like payment by any official or employee for money received by him in respect of his office or employment. The concession is likely to be generally welcomed. The only cause for wonder is that the Chancellor did not see fit to do away altogether with a comparatively unproductive tax which is so generally disliked and so systematically evaded.

Pharmacists in the Army

THE publication of the long-delayed report of the Committee on the employment of pharmacists in the Army, of which an abstract is given elsewhere in this issue, will be received with mixed feelings by chemists generally. In the first place, it is not a complete report, and one wonders why appendices B and D, which came

from the Pharmaceutical Council members of the Committee, were omitted. Since certain conclusions were arrived at, there is an obvious presumption that the material furnished was adequate to convince the medical officers of the need for a change, but it is surely unfair to both parties for the War Office to withhold certain documents unless they are prepared to act on the recommendations. The War Office first postponed the suggestions for one year, and when they were pressed at the end of that time to act they set up the plea of economy and material reduction of the Army. That the propositions would help towards efficiency is readily admitted, but public bodies are always ready to sacrifice that when the fear of expenditure obsesses them. It is unsatisfactory since the report is incomplete and bureaucracy has had its way once more; it is equally unsatisfactory since the conclusions which were a compromise are to be set aside on the false notion that an efficient service would mean expenditure only, and not material saving. Looking back, chemists must naturally wonder how it has all come about. The origins of the Army controversy date back to the reorganisation of the medical service after its disastrous exposure during the South African war. The reason is easily understood. The military mind conceives the Army as a machine, and men, whether professional or not, are units. These units must not think too much; it would be fatal at the numerous critical moments which arise in the course of operations. Staff minds are drilled to use man power for strategic purposes to secure a position or carry a breach, and for the most part this type of mind has little understanding of other professional needs. Medical men, chemists, or any other class for that matter, must be drilled into automatons. On this ground alone the professional service is never comparable with the best standards obtainable in civil life. The question arises whether the report is of any value save as an historic document. Has not the tide turned against militarism, and has not the present reduction of the Army rendered the possibility of profitable pharmaceutical employment too remote to be a disturbing factor? If the nation is again in danger men will forget all and sacrifice themselves, and this the staff mind knows. Men prefer to be fighting units rather than be the victims of their professional training, like those who are put to floor scrubbing and engaged in soul-deadening routine. Should a crisis arise the War Office will muddle into activity on the strength of this report, and pharmaceutically some progress may be made. The question arises: Did we take the current when it served? Those who are best placed and ought to know say we missed it and allowed it to flow past our capacity to use it. When the present Lord Haldane was the War Chief, and thinking and planning the gallant "Old Contemptibles," from 1906 onwards, was the occasion when the Pharmaceutical Council should have taken strong and decisive action. Anything done in those days was mostly secret, and Government departments were approached with fear and trembling. Surgeon-General Evatt gave an address at an evening meeting at Bloomsbury Square, and indicated certain lines of action as well as recommending the Territorial Forces. Many pharmacists joined as military units, and subsequently in 1914 were mobilised and drafted into the fighting line; but what was actually done to impress the medical consultants who reorganised the Royal Army Medical Corps has never been made known by the Pharmaceutical Society. When the Great War broke out the national emotion was such that the immediate demand for men in the fighting line was too clamant, and when some of the older chemists, conscious that they were past their first youth, offered their services in the one thing of which they were capable to

serve their country, they were turned down by the R.A.M.C. directorate. It proved to be terribly disastrous and wasteful in men and material. The younger men demanded that the Pharmaceutical Council should pursue a definite and decisive policy with a scheme for men to serve the nation in the one way for which they were trained. They were told: "We must not embarrass the Army Medical directors," and the consequences were deplorable. In 1916 the claim for a pharmaceutical service was insisted upon by men standing for the Council like Messrs. Skinner and Hines; only the former was elected, and the old *laissez-faire* policy went on. In 1917 Mr. Hines came on the Council with a definite challenge, and he soon found the procrastination was almost beyond his endurance. The remarks and innuendoes which were put up with will never be known to the men who sent them to express the demand for an efficient pharmaceutical service. In the October of that year another challenge was issued in the series of pamphlets outlined by the Progressive Pharmacy Club. The second one was "Pharmacy and the Public Services," in which was outlined a definite scheme for the Army by a pharmacist captain in the R.A.M.C. on active service in France, together with evidence how man power was being misused. Events moved rapidly; the Pharmacists' Volunteer Corps, originated by Mr. E. A. Atkins and a few equally devoted to service, was creating a fine record in London, and when Mr. Arthur H. Jenkin was elected to the Council of the Pharmaceutical Society this body was compelled to move. An interview was obtained with the Director-General, Sir Alfred Keogh. It is well known that that gentleman admitted imperfections in the pharmacy service, and asked the deputation wonderingly if they also were conscious "why they had not approached him before?" It caused a little consternation in the minds of those who had for some years been fighting *laissez-faire* methods. Innumerable testimonies of perverted service were known, and subsequently a joint committee was set up to investigate the hospital system, and Sir William Glyn-Jones visited France. To say the reports were deplorable is to use a mild expression, but these reports have never seen the light of day. The opportune moment, however, was past, and individuals one by one were shunted from the Committee and the present one, with which the newly issued report deals, was called into being. Individuals come and go, but the results are the same; the Armistice, and later the rapid reduction of the Army and its expenditure to modest dimensions, placed recognition of pharmacy in the Army out of bounds. Such is the rough outline of the story. Those who have laboured in the vineyard in the heat of the day know and feel that they have been beaten; first by unwarranted inaction, later by not receiving the confidence of the Pharmaceutical Council, and last of all by time. Something may arise in the future which will be a further compromise, but members of the Pharmaceutical Society will feel that the inefficiency and indecision was not confined to one side only. The narrow outlook of the Council was broadened too late, and on the question of pharmacy in its most useful sphere of service in the cause of humanity and military efficiency of the medical service we pharmaceutically must write "Too late."

The Position of Rubber

DURING the past few weeks considerable interest has manifested itself in a scheme for the setting up of a co-operative selling agency on the part of the leading importers of rubber in this country. The scheme was first mooted some time ago, when reports from the United

States came to hand that it was proposed to set up a joint buying agency by the leading consumers in that country. The idea of the co-operative selling agency was to combat the American scheme, and the matter has progressed so far that definite steps are being taken preliminary to the formation of such an agency. The outline of the scheme, we understand, has already been agreed upon, but the working details will not be discussed at length until it is known definitely that the principle of the scheme will be supported by the producers. So far, we learn that the proposal has found universal support amongst the British interests, and from reports recently to hand we understand the Dutch interests are more inclined to give their support to this scheme than they were to the original one of restriction of output. The position of rubber to-day is very unsatisfactory, and the present low level of price, viz., 10½d. per lb., is considerably below the value at which the commodity can be marketed here with a reasonable return for both producer and importer. The pivotal price of 1s. 3d. per lb., which figure was in the minds of the legislators of the original Stevenson scheme, has been entirely disregarded by the progress of events during the past few months. The rapid decline in price during the past few days (at one time it dropped 2d. per lb. in four days) has caused consternation in the trade, and the pioneers of the Stevenson scheme must now realise that the objects at which it aimed, viz., to place the commodity upon a level at which operations could be carried out with a reasonable return for the capital invested in plantations, and to keep prices at a reasonable level, have been defeated by the recent collapse. Manufacturers, who laid in reasonable stocks some time ago, are faced to-day with heavy losses, and in view of the present trade depression they are very disinclined to purchase any further quantity to average their present holding. It should be pointed out that at present only 60 per cent. of the standard production is now permitted to be exported by the Federated Malay States and the Ceylon legislatures. This means that unless the price is raised this month and the following two months to over 1s. per lb., the present permitted quantity of standard production will be decreased by 5 per cent. to 55 per cent., and if the average for the subsequent restriction quarter—August, September, October—does not average 1s. 3d. per lb. or over, a further 5 per cent. will come off, thus reducing the permitted production to 50 per cent. This reduction of 5 per cent. will be continued each following quarter until the value of 1s. 3d. is obtained. On the present working of the Stevenson scheme it means that a distinct improvement in price is certain in the later months of the year, otherwise the exports will be so reduced to make a shortage inevitable. On the other hand, various opinions are expressed that some modification of the scheme would be effected to prevent such a drastic reduction of exports should values here not reach the desired level. However, manufacturers and dealers are not quite so optimistic as to future prospects, as the quantity that arrives week by week leaves no question of doubt that rubber is being over-produced. Until the shipments from the East are substantially curtailed, or the consumption considerably increased, there can be no question of a genuine improvement in values. The speculative element, which in the past has played so important a part in the fortunes of this commodity, is at present practically out of this market, so that without this outside artificial pressure the article has a better chance than ever to work out its own salvation. In Mincing Lane circles—the centre of the rubber industry—there is a very cautious feeling apparent, and it is difficult to get a reasonable opinion as to future prospects in view of the many disappointments of the

st few months. It should be remembered that since January the market has gradually fallen away from 1s. 2d. 9½d., a fall of 4½d. per lb., and tremendous losses have been made all round. Whether this heavy decline is due solely to the heavy shipments from the Dutch East Indies is problematical, but we are inclined to think that the cautious buying by the big American interests is a more important factor. It is well to remember that when the Stevenson scheme was first mooted there was an outcry by the leading New York dealers and manufacturers that the restriction would create a world shortage of rubber, and there was considerable buying from that quarter, with the result that prices jumped daily with almost every important purchase, and the record low level of 1922 of 6½d. was within a few months increased to 6½d. per lb. This outcry was at once responsible for modification of the scheme, and from that time onward the American buying was to a great extent concentrated to a few large operators, who have played their part exceedingly well by buying as much as possible from the East, and as small a quantity as possible from this market. The local floating stock, which has in recent months been considerably reduced, has always been a factor used to depreciate the value, but it should be borne in mind that when the great slump of 1922 occurred the London stock then stood at approximately 72,000 tons, whereas at the present moment 52,289 tons exist. Values during the next few months will fluctuate considerably, but we feel convinced that by the months of October and November prices will be appreciably higher than the present level.

Formamint Tablets

ON October 1916 the registration of the trade-mark "Formamint" was avoided. Since then it can be used in Great Britain by anyone for a throat lozenge of approximately the same composition as the Wulffing product. Owing to the fact that the original article was stated on the package to be prepared "By Royal Letters Patent," a doubt arose as to whether, on the expiration of the patent under which the article was presumed to be made, Formamint could be sold unstamped. At the time we corresponded with the Board of Customs and Excise and obtained the opinion that because the article had been made under a patent it could not benefit by the exemption in favour of "known, admitted and approved" remedies (*C. & D.*, November 25, 1916, p. 1,178). This was the attitude of the Board until recently, when the matter was reconsidered. In view of the doubt regarding the patent rights and the fact that the word "Formamint" is public property it has now been decided that Formamint can be sold unstamped by chemists as a "known, admitted and approved" remedy, provided that no proprietary rights are claimed upon the label or in advertising matter issued in connection with the article.

Rent and Rates

GRADUALLY the many problems to which the practical interpretation of the Rent Restriction Acts gives rise are being elucidated. The Act of 1920 permits a landlord who pays the rates to increase the rent of a house by an amount not exceeding the difference between the current rates and those charged for the period which included August 3, 1914. That is to say, if the rates charged upon a particular house were £5 for the half-year ended September 30, 1914, and are £8 for the present half-year, the landlord is entitled to pass on to his tenant, by way of increased rent, the additional burden of £3. The justice of this provision cannot be disputed, since rates are a charge not upon the owner, but upon the occupier of premises. Landlords have not been slow to take advantage of this concession during the past years of rising rates, but recently, in many districts, rates have shown a tendency to fall, and the question has arisen whether the rent must be reduced correspondingly. This point formed the sub-

ject of a test case which came before his honour Judge Harrington in the Wandsworth County Court some months ago. The landlord argued that a justifiable increase of rent on account of higher rates, once made, was permanent; the tenant contended that the rent must fall in unison with the rates. The tenant's argument prevailed with the County Court judge, whose decision was, however, reversed upon appeal to the Divisional Court. It is not surprising that the Divisional Court's verdict has now been upset and the County Court judge's restored by the Court of Appeal. It was clearly the intention of the legislature that the increase of rent in respect of rates should not exceed the excess "for the time being" payable by the landlord. Consequently, if the rates are reduced the landlord must allow his tenant the benefit of the reduction just as, when the rates were on the rise, the landlord was able to saddle the tenant with the increase. Thus, if, in the instance given above, the rates next half-year should fall to £7, the landlord will have to reduce the rent by £1.

Westminster Wisdom

By the "C. & D." Parliamentary Representative.

POISON GAS IN WARFARE

Mr. Graham White asked the Prime Minister on May 26 if the Government have made any proposals to, or received any proposals from, other Governments with the object of preventing the use of poison gas in future warfare.

Mr. Clynes, who replied, said this question was the subject of Article V of the Treaty signed at Washington on February 6, 1922, by the United States of America, the British Empire, France, Italy and Japan. The Assembly of the League of Nations have requested a special committee to prepare a report on the effects of chemical discoveries in the case of war. The committee has not yet reported.

CHARTERED ASSOCIATIONS' BILL

A Bill was introduced in the House of Lords on May 22 designed to protect the names, uniforms and badges of associations incorporated by Royal Charter. The plan of the Bill is that Orders in Council may be made to protect (a) the name of the association; and (b) any special name or designation specified in the Order and used by the association for the members thereof, or for the members of any organisation constituted by the association in pursuance of their charter; and (c) any uniform with distinctive markings or badges used by the association and described in the Order; and (d) any badge to be worn without uniform used by the association and described in the Order.

THERAPEUTIC SUBSTANCES BILL

The Committee stage of the Therapeutic Substances Bill was taken in the House of Lords on May 22, and was mainly concerned with Government amendments as referred to in the *C. & D.*, May 24, p. 740. The Institute of Chemistry was added to the list of bodies that can appoint a member of the advisory committee. The Earl of Onslow asked why the Institute of Chemistry was added, to which the Earl De La Warr for the Government replied: "The Minister was advised that, in view of the status of the Institute of Chemistry, it was desirable that it should be included in the list. Your Lordships will probably have noticed that the Pharmaceutical Society is already included."

Another amendment excluded from the operation of the Act any therapeutic substance intended to be used solely for veterinary purposes. At the request of one of the large manufacturing firms a new sub-section was inserted that all regulations should be laid before both Houses of Parliament, the intention being, it was explained, "that due notice should be given of the intention of the Department to add any substance to the schedule." Various other amendments were agreed to, but there was no discussion. The third reading took place on May 23.

Pharmaceutical Society of Great Britain

Annual Meeting (concluded)

THE President's speech at the annual meeting of the Pharmaceutical Society of Great Britain was reported in our issue of May 24 (p. 736). After the Vice-President had seconded the motion for the adoption of the annual report, the following discussion took place:—

MR. J. MACKENZIE (Edinburgh), in a reminiscent speech, raised the question of the subscription, and suggested that it should again be made a guinea. Another matter to which he urged the Council to give attention was the disbursement of money, and he recommended them to obtain legal advice if they were in any doubt as to their position.

MR. ALFRED HIGGS (Kingston-on-Thames) urged the Council to alter the time of the annual meeting from noon to three o'clock in the afternoon, expressing the view that it would then be more largely attended. As to the plea that the candidates wanted to know the result of the election the same day, he pointed out that politicians had to wait till the next day to know the result. He also suggested that revision classes might be started in the interests of young men who, through lack of a little polishing, failed in their examinations, the general standard of which was advancing. He was not in favour of raising the standard of the Preliminary examination to that of matriculation at a university. Mr. Higgs called attention to the lack of botany courses in many parts of the country, and declared that the result was to disfranchise a large number of towns and cities so far as the Society's examinations were concerned. Mr. Higgs expressed his satisfaction at the fact that business methods were included in the subjects in connection with the Leverhulme scholarship, and congratulated the President and Council on the report.

MR. J. T. BARRETT (London) pointed out that botany was by no means a general subject in technical schools, but where education committees found there was a demand for the subject arrangements could be made. In his opinion, chemists should be licensed to take students for apprenticeship, and the matter should not be left to any Tom, Dick, or Harry. He described the Council as a "peculiar body," and caused amusement by saying that no matter how democratic a man was before he became a member of it, when he had been on it five minutes he would "lie down like a lamb."

MR. J. DOWNING (London) referred to the Benevolent Fund, and asked if the Council contributed money from the funds or property of the Society towards it. The subject had been dealt with in *THE CHEMIST AND DRUGGIST*, and he expected that the reply he would receive would be in the negative. At the present time the Society's membership was very large, and the subscription had been increased, while revenue came in from examination fees and other sources, and he believed that the R.P.U. was doing nearly half the work that the Council used to do. He suggested that the subscription might be raised to two guineas, and that part of the extra half-guinea should be given to the fund.

MR. ALBAN ATKIN (London) asked if there had been any conference or agreement with the local authorities or Insurance Committees as to the limit of inaccuracy in Insurance prescriptions. He did not agree at the present time with increasing the standard of the Preliminary examination. Until they got a better status for pharmacy he did not think there was any call for a higher standard in the examinations.

MR. JOHN H. ROBINSON (Liverpool), after congratulating the President on having something to "fight for," and paying a tribute to Mr. Chater, alluded to the Society's certificate as "a disgrace," when compared with those issued by other bodies. With regard to the Benevolent Fund he believed more publicity should be given to the administration of the fund. The "Journal," he said, was "bilious to the backbone."—(Laughter.) Mr. Robinson concluded with a reference to Council "arrogance," and quoted a quatrain ending: "There's room in hell for you; we won't have heaven crammed."—(Loud laughter.)

MR. A. W. GERRARD (Birmingham) said he felt strongly that they should have a larger attendance at the annual meeting. Representative delegates should certainly be present at an important meeting like that, which was only held once a year. He had noticed that there was always a desire at the annual meeting to criticise members of the Council, and he liked to have candid criticism; but he felt that during the past ten years the Council had done really good work for pharmacy and were doing it still. Mr. Gerrard added a word regarding the standards of surgical dressings used in factory first-aid, and urged the Council to take the subject up.

MR. I. T. LLOYD (Chelsea) spoke in favour of an alteration of the time of meeting from 12 o'clock to 3 o'clock, and hoped that it would be carried into effect. The chemists in South London closed at 1 o'clock that day, and there was no doubt many of them would have been glad to attend the annual meeting if it had been held at 3 o'clock. He regretted that the library had been neglected, and recalled that in his early days he used to get valuable assistance from Mr. Knapman. He also added his tribute to Mr. Chater. With regard to the Benevolent Fund, Mr. Lloyd suggested it would be a good thing if the names of the subscribers were published.

MR. GOODE (Twickenham) expressed sympathy with students who were not able to pass the examination, and suggested that those of ordinary ability should be catered for a little more by the Society.

MR. TRUMAN (London) suggested that instead of having the annual meeting in the lecture theatre they should hold it in one of their larger buildings and advertise it, and if they fixed the hour for three in the afternoon he had no doubt they would get a great many more people attending.

THE PRESIDENT, in reply, began by expressing pleasure in seeing Mr. James Mackenzie present. They had had a letter from him a few days ago in which he intimated that he might not be able to be present, and there was one point in that letter which he (the speaker) would like to mention—that Mr. Mackenzie had for seventy-one years been behind a pharmacist's counter. He thought that was a wonderful record.—(Applause.) Mr. Mackenzie had dealt in his speech with the question of high subscription. "I suppose," commented the President amid amusement, "that, perhaps, may be expected from Scotland." But, after all, the subscription of the Society, which included the "Journal" posted regularly every week, was lower than the subscriptions in connection with other technical and scientific bodies. With regard to Alderman Higgs, who had raised the question of the time of the annual meeting, the President remarked that other members had supported him in the contention that it should be held in the afternoon. From the point of view of the Society and the office, there was no administrative difficulty in the meeting being held later in the day, and in view of the expression of opinion at that meeting he would give an undertaking that the matter should be brought before the Council at an early date, and if they could, they would meet the wishes of the Society on the next occasion. (Applause.) Alderman Higgs had also referred to local centres where there were no facilities for botany. The Council had recently been in communication with education authorities throughout the country, and in the next list the Council would be publishing there would be over twenty additional places in which botany was being taught. They had also got assurances from a large number of other centres that, if they had sufficient support in the local area, they would have these classes set up. Mr. Downing had raised the question of the Benevolent Fund, and had asked whether the Council contributed towards it. His answer was that the Council did not directly contribute to it, but it should be pointed out that all the administrative expenses of the fund were borne by the general funds of the Society, so that indirectly a contribution was made. Every penny sent in by subscribers was spent for the purposes of the fund, and nothing whatever was deducted for administrative expenses. With reference to Mr. Atkin, who had asked a question about the limit of inaccuracy in Insurance prescriptions, the President said the Council had done

nothing in the direction suggested, and he was not quite sure it would be wise for them to do anything. They were all pleased to see Mr. Robinson, who always brought fireworks from the North. (Laughter.) Mr. Robinson always amused and entertained them and to a certain extent, of course, elevated them. (More laughter.) With regard to the certificate, the Council since the last meeting had decided to make it a very distinguished-looking one. He only mentioned that in order that Mr. Robinson would go on making suggestions, because Mr. Robinson was a very loyal friend of the Society. As to the Benevolent Fund, he thought Mr. Robinson was right, and probably the Committee would take the matter into consideration during the coming twelve months. They all welcomed Mr. Gerrard, who was the second member of the Society to speak that day who was over eighty years of age. (Applause.) Mr. Gerrard was an example to the younger members of the Society. (Applause.) He assured the meeting that notice would be taken of all the suggestions that had been made, and they would be referred to suitable committees.

The resolution for the adoption of the report was carried unanimously.

SCRUTINEERS

On the motion of the President, forty-two persons were appointed to act as scrutineers to examine the ballot papers in the Council election.

AUDITORS

It was proposed, seconded, and adopted that the following be reappointed auditors:—Messrs. G. B. Francis, J. F. Harrington, J. S. Hills, T. E. Lescher, E. J. Millard.

REGISTERS

The PRESIDENT called attention to the fact that the Registers were open to inspection.

The meeting was then adjourned for the purpose of counting the votes.

Branch Meetings

Cambridge.—The first annual meeting of the Cambridge Branch was held on May 22. Mr. F. S. Barker (chairman), who presided, moved a vote of sympathy to the family of the late Alderman A. Sidney Campkin. Mr. Arthur Deck presented a satisfactory balance-sheet, which was adopted. The secretary reviewed the work done by the branch since September 1922. The officers elected for the ensuing year were as follows: *Chairman*, Mr. J. S. Shearman; *Vice-Chairman*, Mr. Hy. Flanders; *Treasurer*, Mr. Arthur Deck; *Secretary*, Mr. B. Sidney Campkin, 11 Rose Crescent, Cambridge; *Auditor*, Mr. S. S. Beall; *Committee*, Miss Towler, and Messrs. S. F. Barker, F. W. Cannon, A. Coulthard, J. Evans, J. Hayllar, S. T. Milbank, E. A. Morgan, J. B. Simmons. Mr. F. W. Cannon was appointed delegate to the Bath Conference. Sir William Glyn-Jones then read a paper on *Ten Years of the Society's History, 1913-23*, in which he gave a review of the work of the departments of the Society, and also of the special war work and activities arising in connection with demobilisation. He referred to the association of the late Alderman Campkin with all these activities, and mentioned the work of Major Peck, both during the war and subsequently as a member of Council. Major Peck, in stating that they had listened to a review of the work of the Society from a "master hand," regretted that Sir William had not indicated his own share in the work, emphasised the great step in the institution of the different schools spread over the country, and proposed a hearty vote of thanks to Sir William for his paper. Mr. Barker seconded in a speech of amusing reminiscences. Mr. Cannon supported the resolution. Mr. Arthur Deck added an appreciation of the "unseen work of the Society," concluding by saying the Benevolent Fund was beyond reproach. In the course of this discussion it was agreed that an effort to increase the contributions to the Benevolent Fund should be made to the branch members. Mr. Cannon, calling attention to the retire-

ment after a long service of Mr. A. J. Chater, proposed that a letter of appreciation of the work he had done for pharmacy be sent to Mr. Chater. Mr. B. Sidney Campkin seconded.

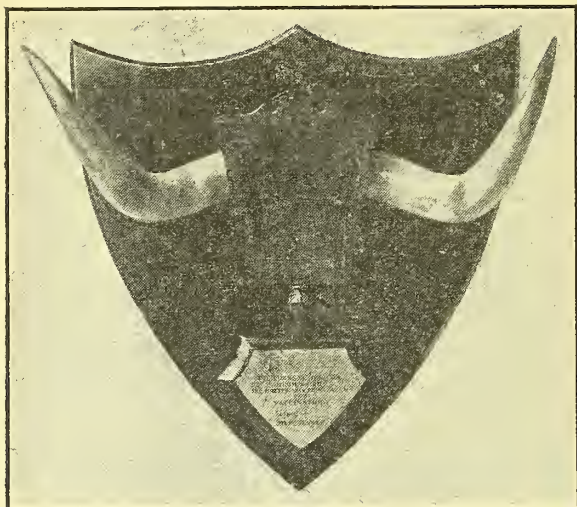
Lancashire (N.E.).—A meeting of the North-East Lancashire Branch was held at Darwen on May 27, Mr. S. H. Sidebottom (Accrington) presiding over a large assembly. Blackburn, Darwen, Accrington and adjacent towns were represented. Mr. Fred Law (secretary) read a letter from the Society regarding pharmaceutical scholarships. The chairman said a deputation of pharmacists had interviewed Mr. F. J. Harlow, principal of the Blackburn Technical College, regarding classes for pharmaceutical students. As a result of their interview, a time table had been drawn up which provided the following classes:—First year: Monday morning, 9.30 to 10.30 and 10.30 to 12.30; Wednesday morning, similar hours; Tuesday afternoon, 2 to 3 and 3 to 5. Second year: Tuesday morning, 9.30 to 10.30, and 10.30 to 12.30; Wednesday afternoon, 2 to 3, and 3 to 5; Thursday afternoon, 2 to 5. Third year: Monday afternoon, 2 to 5; Tuesday morning, 9.30 to 12.30; Thursday afternoon, 2 to 5. This time table, which was approved, will be sent to every pharmacist in the area. Mr. Law said he had received a communication from the Society regarding the Bath Conference in July, at which the proposition for controlling the manufacture and sale of pharmaceutical preparations would be discussed. Their chairman would be attending this conference, and it was perhaps desirable that the branch should give him some idea of their views. Councillor Snell said this was a great ideal—pharmacy for pharmacists and no one else. That was what it amounted to, and he thought they could leave their delegate to support such a movement as that. Whether they would reach such a position either in this century or next he was not prepared to argue. (Laughter.) He was afraid that for the present the proposition was so idealistic that there was not much chance of them attaining to it. It was agreed that the subject be left to the discretion of the delegate. Consideration was given to the Society's education report re articles of pupilage. Answering questions, the chairman said provision would doubtless be made for existing apprentices who were now working under old conditions. At the conference meeting a five years' apprenticeship did not meet with great favour. After a discussion, four years was agreed on as the minimum indenture. Mr. Law said at the previous meeting Mr. Simmons had made a special appeal on behalf of the Benevolent Fund, and subscriptions were taken at the gathering which amounted to £4 10s. He had now received a letter from headquarters appreciating the effort, and pointing out that what was really desired was systematic subscriptions on the part of members each year, so as to provide a regular income. He suggested that a letter be sent to every pharmacist emphasising the value of systematic support in this direction. This was seconded by Mr. Walker, and carried.

London (W.).—The annual meeting of the West London Branch was held at 192 Oxford Street on May 22, the chairman (Mr. Harry Martin) presiding. The secretary's report showed that the branch consists of 530 members and 57 student-associates. The treasurer reported balance in hand £33 13s. 10d., an increase of £19 12s. 6d. on the balance of a year ago. A committee was elected as provided for in the rules.

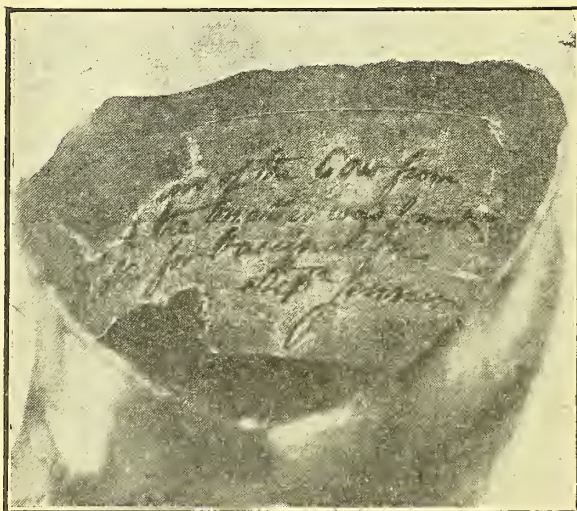
Preston.—The annual meeting of the Preston Branch was held at the Café Orient on May 21, at which Mr. W. B. Pomfret was elected *Chairman*, and Messrs. S. R. Fisher and F. A. Williamson were elected *Treasurer* and *Secretary* respectively. The secretary read letters from headquarters relating to scholarships and the Benevolent Fund. The draft articles of agreement were discussed with reference to the delegates' meeting at the forthcoming British Pharmaceutical Conference. The opinion was expressed that there should be some mention of remuneration for apprentices; a resolution was passed to this effect, but was not unanimous. The meeting concluded with a smoking concert.

A Jenner Relic

AUTHENTIC relics of Edward Jenner have been exhibited in London from time to time, and it may have been supposed by those who saw them that everything of interest in that way had long since been duly housed and labelled. As the accompanying illustrations show, however, the horns of the first cow used in vaccination



by Jenner have come to light, and we learn that Mr. G. A. Turner, F.C.S., principal of Anderson & Virgo, chemists, Worcester, to whom we are indebted for the loan of his photographs, has purchased them and proposes to hang them in his pharmacy. The authenticity of this link with the famous physician is sufficiently well established; and it has no serious rival, since the inscription on the horn in the Royal College of Physicians of London (shown at the Wellcome Historical



Medical Museum last year) is non-committal in its wording. The skin of the animal belongs to Jenner's old hospital in London, St. George's. The inscription reproduced here reads: "The horns of the cow from which the matter was first taken for vaccination.—Steph. Jenner." Mr. Turner has been at great pains to verify the handwriting, and his inquiries leave no reasonable doubt that he has secured an historical curiosity of unusual interest.

Proprietaries in Australia

THERE is evidently a movement on foot in Australia to legislate further in regard to proprietary medicines, as will have been noticed from last week's issue of the *C. & D.* (p. 722). By this mail we have received copy of a circular from the Sydney Chamber of Commerce (Proprietary Articles Section), which intimates that on August 21, 1923, a fully attended representative meeting of wholesale drug merchants, manufacturing chemists, and others interested was held at the Chamber to protest against any proposed legislation "requiring the disclosure of formula of proprietary medicines." An Advisory Committee was appointed as follows: Mr. Alex. Markell, chairman (managing director of Chas. Markell & Co.); Mr. F. W. Firth, managing director (Elliott Bros., Ltd.); Mr. R. K. Allport, managing director (Sayers Allport Pty., Ltd.); Mr. W. E. Woods, managing director (W. E. Woods, Ltd.). The trading concerns which would be affected by proposed legislation are:—Wholesale merchants, metropolitan grocers, country store-keepers, wholesale chemists, retail chemists, and manufacturers. The Chamber of Commerce is influenced by a desire to obtain first-hand knowledge of the true position of proprietary medicines as it affects the general public. It has been resolved to investigate the matter by inviting an expression of opinion from each member of each trade. In Australia, manufacturers, feeling secure in the protection afforded them by Government registered proprietary rights, have set up extensive industries. It is maintained that if Governments, either local or federal, insist on formula disclosure of proprietary medicines it would have the effect of completely nullifying the strength of the Patents Act, which has always been considered as one of the bulwarks of Australia's constitution. It is contended that the regulations embodied in the Pure Food Act, providing for registration and guarantee, is sufficient protection to traders and the public. The results of the answers to the circular issued by the Chamber of Commerce were given in last week's *C. & D.*

Associated Pharmaceutical Societies of South Africa

WE reported in the *C. & D.* of May 17 (p. 685) that a conference of delegates from the various Pharmaceutical Societies and Chemists' Associations was held at Cape Town on April 17. We have now received from the secretary a copy of the proceedings of this conference, together with a report of the work done during the six months the Association has been in existence. We gather that the delegates were very enthusiastic over the results attained, for, as is generally known, the Prime Minister, in his election campaign, has made the repeal of the patent-medicine stamp tax the first plank in his platform, and the Association congratulates itself on the fact that this is solely due to their efforts. It is unwise, however, to rely too much on politicians' election promises, even those of General Smuts, so that the slogan of the profession at the present time reads: "The immediate total repeal of the medicine stamp tax, and the abolition of the special additional Customs duties levied on toilet articles and perfumery, and no substitution of any further taxation whatsoever on medicine." Colonel Cresswell, the leader of the Labour party, has already promised this *in toto*, but the Association still awaits replies from the leaders of the other two parties. The officers of the Association remain practically as heretofore, but the representation has been changed slightly on the basis of the memberships which have now been certified in each Province.

INTER-ASSOCIATION SPORTS.—Mr. D. A. Rees, Ph.C., secretary of the South-West London Chemists' Association, requests us to point out that he will welcome any support in contesting the various items of the sports to be held on the ground of S. Maw, Son & Sons, Ltd., Monken Hadley, on June 18 and 19.

Pharmacists in the Army

THE following are the chief passages in a report dated December 30, 1921, and entitled "Report of the Committee Appointed to Consider the Employment of Pharmacists in the Army" [C. 18. Stationery Office: ls.], which has been issued this week. The Committee consisted of Colonel O. L. Robinson, C.M.G. (chairman), three representatives of the War Office (Major P. G. Easton, Colonel J. R. McMunn, and Mr. W. H. T. Ottley), and three representatives of the Pharmaceutical Society (Sir William Glyn-Jones, Major E. Saville Peck, M.A., and Mr. E. White, B.Sc.), with Captain J. W. Willsher as secretary. The terms of reference were: To consider the employment of pharmacists in the Army in connection with the provision, distribution and dispensing of medical and surgical supplies in peace and war, and to make recommendations regarding their organisation and status. (N.B.—The word "provision" in the above terms of reference does not include "purchase," as the function of purchasing remains with the Army Council and its officers.) The numbering and the cross-headings are those adopted in the Report:—

Report

1. The Committee assembled for their first meeting on December 16, 1920. . . .

2. It was felt by all the members that although the terms of reference stated that they were to consider the employment of pharmacists in the Army, it would not be possible to do so without at the same time considering the general pharmaceutical arrangements existing in the Army at the present time.

3. As the military members were fully acquainted with the conditions under which dispensers are employed in the Army, and the representatives of the Pharmaceutical Society were equally well acquainted with the conditions obtaining in civil life, the Committee did not feel it to be necessary to call any witnesses.

4. It was agreed . . . to consider separately the employment of pharmacists as commissioned officers and in the ranks. (By the term "pharmacist" is meant an individual holding a statutory qualification, and registered either as a pharmacist or pharmaceutical chemist under the pharmacy laws of Great Britain or Ireland.)

5. The Committee, in the first instance, proceeded to examine the conditions under which dispensing duties are carried out in the Army as compared with similar duties in civil life. Pharmaceutical duties in the Army are, with few exceptions, carried out by warrant officers, non-commissioned officers and men of the Royal Army Medical Corps who have qualified as Army dispensers. Appendix A gives the particulars of training, etc., for the certificate of Army dispenser. In civil life pharmacy, i.e., dispensing, is undertaken by pharmacists, apothecaries' assistants and chemists' assistants. Among these the pharmacist is the only one who holds a statutory qualification entitling the holder to keep a chemist's shop for the sale and dispensing of poisons. Considerable time and expense are entailed in obtaining the qualification of pharmacist, and the standard of general and technical education is comparatively high. (See Appendix B.)* As regards status and pay, he occupies a much better position than those who are not so qualified.

6. The chairman explained the organisation for the supply, distribution and dispensing of medical and surgical supplies in the Army in peace. (See Appendix C.)

7. Sir W. S. Glyn-Jones stated that the views of the Pharmaceutical Society of Great Britain on the arrangements obtaining during the war for the supply, distribution and dispensing of medical and surgical appliances are set forth in the criticisms and suggestions made by the pharmaceutical representatives on March 16, 1918, and on October 4, 1920. (See Appendix D.)* He also outlined the proposals, now under consideration of the Consultative Council of the Ministry of Health, to employ specially trained pharmacists in institutions under the Ministry's control in rendering skilled assistance in the pathological laboratories, x-ray installations, etc., and

pointed out that similar duties could be carried out by pharmacists in the Army. The chairman, however, pointed out that certain non-commissioned officers and men of the Royal Army Medical Corps are already trained and employed as x-ray and laboratory attendants. Sir W. S. Glyn-Jones also referred to the report of the Committee on the training of dispensers in the Royal Army Medical Corps (*vide* Appendix E), and urged on behalf of the representatives of the Pharmaceutical Society that those recommendations should not be given effect to until the report of the present Committee had been submitted to the Army Council. The chairman expressed the hope that the proposals of the above-mentioned Committee would be found to be complimentary [*?* complementary] to the views of the Pharmaceutical Society and that they would be confirmed, together with such recommendations as the Committee might desire to put forward.

8. The Committee, as a whole, were not agreed that the conclusions contained in the reports by the Pharmaceutical Society of March 16, 1918, and in October 1920, referred to above, are entirely justified, but they are convinced that improvements on the present arrangements are very necessary.

9. Following this preliminary discussion, the Committee, after much consideration, unanimously came to the conclusion that they could not usefully report in complete detail upon the employment of pharmacists in the Army in connection with the supply, distribution and dispensing of medical and surgical supplies in peace and war, in exact accordance with the terms of reference. They felt, moreover, that the proposed training and appointment of pharmacists in the Army, particularly the appointment of the pharmacist officer at the War Office as set forth in succeeding paragraphs of their report, would result in the improvements in the supply, distribution and dispensing which they are of opinion are so urgently needed. The pharmacist officer would, further, be in a position after some Army experience to devise improvements in procedure, particularly in regard to the supply and distribution of medical and surgical supplies.

10. The Committee is of opinion that the standard of knowledge and general efficiency in pharmaceutical matters possessed by Army dispensers is inadequate at the present time, and that the employment of men of higher educational qualifications, both general and technical, in the larger military hospitals would be conducive alike to efficiency and economy. . . .

GRADING OF NON-COMMISSIONED OFFICERS AND MEN

11. A prolonged discussion then followed on the duties now performed by dispensers in the army and the changes which would necessarily be introduced by the employment of pharmacists. It was urged by the representatives of the Pharmaceutical Society that if pharmacists were employed for the more important duties, it would not be necessary to educate the whole of the men employed in pharmaceutical work to the same standard. After discussion, the Committee finally agreed to recommend a modification of the proposals set forth in the recommendations of the Committee on the training of dispensers in the Royal Army Medical Corps so that the additional grade of compounder could be introduced and that the grade of superintending dispenser should be replaced by that of pharmacist.

12. The employment of compounders, dispensers and pharmacists was then considered and it was finally agreed that the following arrangements would be advisable:—

(a) *Compounders* to be eligible for employment in hospitals where only a portion of their time is occupied in duties connected with the dispensary.

(b) *Dispensers* to be eligible for employment where their time is wholly occupied in duties connected with the dispensary.

(c) *Pharmacists* to be placed in charge of the dispensaries of hospitals of 100 beds and over. . . .

14. . . . The employment of pharmacists, even in peace time, at the Army Medical Stores, Woolwich, and in stations abroad, would result in increased efficiency in many directions.

* Not printed with this Report.

TRAINING

15. The Committee then proceeded to consider what degree of training should be given to compounders, dispensers and pharmacists in order to fit them to carry out their duties. They were of opinion that the training to qualify for the respective grades should be as follows:—

(a) *Compounders* to receive six months' elementary training in the dispensary of a selected military hospital, three months at the Royal Army Medical Corps School of Pharmacy, and to pass a Qualifying examination at the termination of their training.

(b) *Dispensers* to receive training as at (a), but with a further three months' training at the Royal Army Medical Corps School of Pharmacy and to pass an examination of the standard of the proposed Assistants' Qualification of the Pharmaceutical Society.

(c) *Pharmacists* to receive such further training at the School of Pharmacy and civil teaching institutions as will enable them to pass the Qualifying examination of the Pharmaceutical Society.

Non-commissioned officers for training as dispensers should be obtained by selection from among those already qualified as compounders, and similarly only those qualified as dispensers should be eligible for training as pharmacists.

16. The Committee are unanimous in urging the need for the provision of such training and education in pharmacy, and they entirely endorse the recommendation of the Committee on the Training of Dispensers in the Royal Army Medical Corps (Appendix E) for the establishment of an Army School of Pharmacy under the direction of a pharmacist possessing the necessary academic and teaching qualifications. The recommendations contained in the present report are made on the assumption that such a School of Pharmacy will be established.

17. The Committee considered that the expenditure of Army Funds which would be involved in providing staff and equipment to teach the subjects of chemistry, botany and physics for the curriculum of the Pharmaceutical Society would be unjustifiable; they therefore recommend that this part of the training for pharmacists should be taken at one or other of the existing approved civil educational institutions. It was agreed, however, that such subjects as pharmacy and materia medica for Part II of the Qualifying examination of the Pharmaceutical Society could be adequately taught at the proposed Royal Army Medical Corps School of Pharmacy.

The representatives of the Society expressed the earnest desire of their Council to assist the Army authorities in this matter in every possible way.

EDUCATIONAL STANDARD

18. In connection with the training of non-commissioned officers as pharmacists it was represented that the standard of education required for the 1st Class Army Educational Certificate would be on an equality with the other educational certificates accepted by the Pharmaceutical Society for registration as students. It was agreed that the Education Department of the War Office should be asked to represent this officially to the Pharmaceutical Society. This has since been done and the Society has in consequence of this recommendation and with the approval of the Privy Council added the 1st Class Army Educational Certificate to the list of those accepted by the Pharmaceutical Society for this purpose on the understanding that the certificate includes the following subjects:—(a) English; (b) mathematics; (c) geography and map reading; (d) one optional subject.

PAY

19. Although not entirely relevant to the terms of reference, the Committee would recommend that the qualification of compounder should remain as an obligatory qualification for promotion to the rank of sergeant, but that the attainment of the qualifications as dispenser and pharmacist should be optional, and further that the three classes should be grouped for pay as follows:—(a) Compounders, Group C; (b) Dispensers, Group B; (c) Pharmacists, Group A.

COMMISSIONED PHARMACISTS (PEACE)

20. The Committee's report has dealt so far mainly with the employment of the "other ranks" in pharmaceutical duties, i.e., the actual individuals engaged in pharmaceutical duties in units. The Committee, however, are unanimously of opinion that in the interests of economy and efficiency, it is necessary to employ some pharmacists of commissioned rank. The development of modern pharmacy has been such that it is found expedient and economical to employ pharmaceutical experts in all the large civil hospitals and in Continental armies. The Committee are convinced that the experience of the war has shown that it would have been of great advantage if there had been in the Royal Army Medical Corps pharmacists capable of inspecting and advising on the complex pharmaceutical problems involved in the supply, distribution and dispensing of medical and surgical supplies. The employment of a pharmacist officer with high technical knowledge at the War Office and at the School of Pharmacy would result in the diffusion of knowledge as to the most efficient and economical processes to be followed in the making of pharmaceutical preparations and the standardisation of these processes throughout the Army. At the present time it is questionable whether the employment of a commissioned pharmacist would be justifiable in military hospitals, but the employment of such an expert is most desirable when considering the Army as a whole. The Pharmaceutical members of this Committee would desire to go further and recommend the appointment of several such officers, one to each command at home and in larger stations abroad, as originally suggested by the Committee appointed by the Director-General Army Medical Service in their report of August 6, 1918 (*vide* Appendix F), but in the altered circumstances of the present day, they are agreed in only recommending the appointment of a pharmacist with commissioned rank who would undertake advisory and inspectorial duties at the War Office and in commands. . . .

21. . . . He would advise on all technical matters connected with the proposed School of Pharmacy and on the technical duties of the *personnel* engaged throughout the Army in the supply, distribution and dispensing of medical and surgical supplies. His knowledge of all pharmaceutical matters would be at the service of commands and his expert knowledge would be valuable in advising as to the economical preparation of medicines and other medicaments. He would, under the orders of the Inspector of Medical Services, inspect the hospital dispensaries in commands, and report as to the efficiency, or otherwise, in their technical duties, of the staff employed therein.

22. The appointment at the present time of such an officer as the Committee recommend would make available, in the event of mobilisation, an expert whose advice upon the expansion of the pharmaceutical services, both in regard to material and *personnel*, would be of the utmost value. It should be recognised that the duties of the proposed pharmacist officer at the War Office would be supplementary to the pharmaceutical work at present carried on in that branch of the Army Medical Department at the War Office, which deals with medical and surgical supplies.

23. This officer should be senior to the officer holding the post of instructor at the Royal Army Medical Corps School of Pharmacy, and the Committee think he should hold the rank of captain on first appointment. The Committee considered that the commissioned pharmacists employed at the War Office and Royal Army Medical Corps School of Pharmacy should receive the pay and allowances of quartermasters, Royal Army Medical Corps, in their respective ranks, i.e., captain and lieutenant on first appointment, and should be eligible for promotion.

EMPLOYMENT OF PHARMACISTS IN WAR

24. It will be observed that the Committee have not made any separate recommendations regarding the appointment of commissioned pharmacists in time of war in view of their opinion expressed in paragraph 22, but they consider that the employment of pharmacists

in war in connection with the supply, distribution and dispensing of medical and surgical supplies requires more detailed consideration. . . .

25. The Committee then proceeded to consider the best method of forming a war reserve of pharmacists and dispensers in view of the fact that the numbers of these classes of specialists at present serving in the Royal Army Medical Corps would be insufficient to meet the requirements of the Expeditionary Force. . . .

28. In addition to pharmacists a large number of dispensers will be required on mobilisation, and the Committee believe that these could be found from among the younger men of the pharmacists' assistants grade. The arrangements for their training should be on exact similar lines to that for pharmacists, but they should receive the rank of corporal only, and would not be eligible for further promotion unless and until they had qualified as pharmacists. . . .

29. The Committee had formulated these proposals before becoming aware of the recommendations of the Militia Committee. Should the report of the Militia Committee be accepted by the Army Council, it would be necessary to modify the above recommendations, although the Committee consider that the training they have recommended is the minimum necessary to ensure efficiency. . . .

[The findings of the Committee are summed up in eleven "Recommendations," and the report is signed by every member.]

Appendices

APPENDIX A.

Syllabus of Instruction for Dispensers, R.A.M.C.

1. The course is divided into two parts, "A" and "B."
2. Part A includes careful training for at least six months in (1), (2), (3) and (4) of the following subjects, and elementary instruction in (5), (6), (7) and (8).

3. Part B includes further training and instruction in special classes for at least three months in the last four subjects of the syllabus:—

(1) Latin names, words and simple directions in general use in pharmacy. Synonyms, and the translation of Latin prescriptions into English, and vice versa. The several symbols, their meaning, use and the relative proportion the measures they represent bear to one another either by weight or capacity.

(2) Surgical instruments, field medical equipment and other technical appliances used in military hospitals; their component parts, care, uses, means of preservation, etc.

(3) Supplies and returns.—The regulations regarding medical and surgical supplies. The preparation of all returns, requisitions and other documents required for the supply, receipt and expenditure of surgical instruments, medical stores, etc. (See the Regulations for the Medical Services of the Army.)

(4) Elementary chemistry (within the limits of "Chemistry for Beginners," by C. T. Kingzett).

(5) The various drugs in the British Pharmacopœia; their appearance, taste and odour, their nature of properties, medicinal uses, doses, incompatibilities and modes of preservation.

(6) The official preparation of these drugs; the composition, appearance, dose and the proportional quantities of the ingredients of the more important ones and modes of preparation.

(7) Poisons.—Their names, characters, dangerous doses, symptoms and the antidotes or other remedial measures to be adopted in cases of poisoning.

(8) Prescriptions, reading, measuring, weighing, compounding, labelling in a neat and distinct hand, and the mode of administering the remedies ordered.

APPENDIX C.

Notes on the Supply of Medical and Surgical Equipments, Drugs, Medicines, etc., to Military Hospitals in the British Army in Peace and War.

The purchase of medical and surgical equipment, drugs, medicine, etc., in peace is undertaken by the Contracts Department of the War Office on requirements and specifications furnished by the Medical Supplies Branch of the Directorate of the Army Medical Service of the War Office. As a rule supplies are arranged by the Medical Supplies Branch of the War Office on demands submitted by officers in charge military hospitals at home in quantities recommended by deputy-directors of medical services of commands. Contractors supply military hospitals direct, in-

spection being undertaken by the Medical Supplies Branch which places the orders with contractors. Abroad annual demands are made on the War Office by officers in charge Army medical stores established in each command in quantities recommended by the deputy-director of medical services. . . .

The purchase of medical and surgical equipment, drugs, medicines, etc., in war is arranged in the same way as for peace. Supplies are arranged by the Medical Supplies Branch of the War Office on demands submitted from officers in charge of depôts of medical stores at the base of operations in quantities recommended by the director of medical services of the Expeditionary Force when the stores are issued on demand to general hospitals and other medical units and regimental units in the base area. . . . Supplies are also made by contractors to base depôts of medical stores of the Expeditionary Force.

APPENDIX E.

Extract from the report of the Committee appointed to consider the training of dispensers in the Royal Army Medical Corps, dated May 17, 1920.

Finding.—That the standard of efficiency under the present system of training is inadequate.

Recommendations

1. That in order to remedy this inadequacy an Army School of Pharmacy should be established.

2. That two grades of dispensers be constituted—

(a) Dispensers who would be educated up to the standard of the examination of the Apothecaries' Halls of London and Dublin.

(b) Superintending dispensers, whose training should approximate to the standard of the Qualifying examinations of the Pharmaceutical Societies of Great Britain and Ireland. . . .

7. That the chief instructor at the Army School of Pharmacy be a qualified pharmacist, should be given commissioned rank, and that he be given the assistance of at least three superintending dispensers as demonstrators.

8. That a suitable building be made available, with laboratory accommodation for 50 students.

9. That a standing Board of Examiners be found for the conduct of the written examinations at home and abroad and for the practical and oral examinations at home, and that a modified local board be formed in stations abroad for the purpose of carrying out similar duties overseas.

10. That the arrangements for the training of dispensers serving abroad be similar to those at home, except that a central hospital be selected for the training in lieu of the School of Pharmacy, successful candidates being required to attend a "refresher" course at the School of Pharmacy on their return home. The advanced course for superintending dispensers should, however, only be carried out at the Army School of Pharmacy.

11. That an enlarged and more comprehensive syllabus of training be drawn up.

12. That a number of suitable dispensers be trained for duty as superintending dispensers as early as possible, and made available for appointment as instructors in the larger hospitals, and as demonstrators in the Army School of Pharmacy.

APPENDIX F.

Extract from Report of Special Committee appointed by Director-General, Army Medical Services, to discuss the position of pharmacists serving in the Royal Army Medical Corps with representatives of the Pharmaceutical Society of Great Britain.

August 6, 1918.

Officers.—The Committee think that honorary commissioned rank should be open to the non-commissioned officers of the Pharmacists' Section. It is not proposed to substitute pharmacists for quartermasters. It is suggested that pharmacists holding honorary commissions would be best employed as inspectors, and that their functions would be concerned with medical supplies, pharmacy, dispensing and medical stores. The Committee is of opinion that there is insufficient work in a general hospital to occupy usefully the whole time of one of these officers, and that it would be a waste of man-power and an unjustifiable expense to the public to include one in the establishment. At the present time, for lack of experience and training in Army methods, these officers would be quite inefficient as quartermasters. . . . If one such officer were allotted to each of the larger bases abroad and one to each command at home, it seems to us that this should fully meet the present requirements as regards commissioned officers. On demobilisation their business and technical knowledge would probably be of considerable use in connection with the sorting and arrangement of drugs, dressings, etc.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, May 29.

THE actual amount of business passing in the Mincing Lane produce market is again disappointing, and quiet conditions continue to rule. The critical financial period through which Germany is passing is having a somewhat serious effect on our markets, inasmuch as large quantities of produce now afloat for Hamburg are being sacrificed by merchants who are unable to meet their invoices owing to shortage of ready money and difficulty of arranging credits. We learn that the Hamburg quays are overflowing with recent shipments, which are offered at exceptionally low prices as the result of financial trouble. The recent substantial decline in menthol and Japanese dementholised mint oil is chiefly due to this fact, whereas the position of these products in Japan is quite firm. In drugs, the bi-monthly drug auctions command interest this week, the offerings being on a fairly large scale. New crop cascara sagrada to arrive has been offered at rather lower prices, while spot values remain unchanged. The production of Norwegian cod-liver oil has exceeded all previous records, but a fair quantity has been sold lately. Opium is likely to be cheaper in the near future, when the restrictions in Switzerland and Germany materialise; a good crop is anticipated. Menthol is a trifle easier in the absence of demand. English castor oil has been suddenly advanced. Morocco coriander seed has been dealt in at cheaper rates, and canary seed is firm and in slightly more demand. Among pharmaceutical chemicals business continues small in volume. Aspirin, salicylic acid and sodium salicylate are the turn easier. Hydroquinone is hardening, and B.P. lactic acid is rather firmer. Paraformaldehyde is easier. In industrial chemicals, a slight improvement in demand is reported, and prices are steadily maintained. Oxalic acid is easier and sodium nitrate rather firmer; arsenic continues weak. Among fixed oils, business is fairly good in some products. Palm oils are dearer; linseed closes firm, while turpentine is quiet and easier.

Higher	Firmer	Easier	Lower
Castor oil (Eng.)	Citric acid Citronella oil (Ceylon)	Anise (star) oil Aspirin Cascara sagrada (to arrive)	Balsam (Canada)
Lime juice	Geranium oil (Bourbon)	Citronella oil (Jv.)	Cardamom seed
Palm oils	Lactic acid (B.P.)	Farina (Dutch)	Coriander seed
Sarsaparilla	Phenazone	Lead acetate (to arrive)	Cuttlefish bone
(grey Jamaica)	Sodium nitrate	Maize starch	Mint oil (Jv.)
Wax, veget.		Oxalic acid	Rhubarb (H.D.)
(Jp.)		Paraformaldehyde	Turpentine
	Steadier	Pepper (white Muntok)	
	Acetone	Petitgrain oil (Parag.)	
	Resorcin	Salicylic acid	
	Salol	Wax, paraffin	

Cablegrams

NEW YORK, May 28.—Business is quiet. Menthol is lower at \$12.25 per lb. Bromide salts are higher; potassium is now 17c., ammonium 19c., and sodium 22c. per lb.

BERGEN, May 28.—The total catch of cod for the whole of Norway since the opening of the season amounts to

58,200,000, against 44,800,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 100,474 hectolitres, against 77,267 hectolitres last year. Finest new non-freezing medicinal oil is nominal at 90s. to 92s. per barrel, c.i.f. principal U.K. ports.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	May 21	May 28
Amsterdam	Fl. to £	12.107	11.64½—11.65½	11.56½—11.57½
Berlin	M to £	20.43	18½—18½ billions*	18—18½ billions*
Brussels	Fr. to £	25.22½	92½—92½	94½—94½
Calcutta	Per rup.	24d.	163½d.—163½d.	163½d.—163½d.
Christiania	Kr. to £	18.159	31.33—31.38	31.43—31.48
Constantinople	Pst. to £	110	810—820	820—830
Greece	Dr. to £	25.22½	223—226	223—226
Italy	Lire to £	25.22½	98½—98½	93½—98½
Kobe	Per yen	24.58d.	22½d.—22½d.	22½d.—22½d.
Lisbon	Escu.	53½d.	1½d.—1½d.	1½d.—1½d.
Madrid	Pts. to £	25.22½	31.50—31.52	31.66—31.69
Montreal	\$ to £	4.86½	4.43½—4.43½	4.40—4.40½
New York	\$ to £	4.86½	4.35½—4.36	4.33½—4.33½
Paris	Fr. to £	25.22½	78.70—78.80	80.75—80.85
Singapore	Per dol.	—	27½d.—28½d.	27½d.—28½d.
Switzerland	Fr. to £	25.22½	24.62—24.64	24.53—24.55
Vienna	Kr. to £	24.02	308,000—312,000	308,000—311,000

* Nominal.

Crude Drugs, etc.

ANTIMONY.—There is a fair demand for regulus, and the tone is very steady, while Far Eastern sellers are less pressing at £34 to £35 c.i.f. for near shipment from China. Spot lots stand at £41 to £42. English refined ranges from £49 10s. to £50.

ARROWROOT is slow of sale, common to good manufacturing offering at from 9½d. to 11d., and grocery at 1s. per lb.

BALSAMS.—Tolu can be had at from 6s. 9d. to 7s., Peru at 7s., and Canada balsam at 6s. 9d. per lb. New York report a decline in Oregon fir balsam to 75c. per U.S. gallon, f.o.b. coast.

CADMIUM.—There continues to be an ample supply, chiefly coming from Australia, but current demand is sufficient to absorb incomes, so that rates are steadily maintained at 2s. 6d. to 3s. per lb., according to purity. The bulk of the Australian output is coming to this country, the total export from that quarter during last year representing 61 tons, according to a mail report.

CASCARA SAGRADA.—New bark for July-September shipment has been quoted at 105s. per cwt. c.i.f., in five-ton lots, which is rather cheaper. On the spot, new bark is quoted at 160s. per cwt., old at 170s., and four-year-old up to 185s. per cwt.

CASSIA LIGNEA is steady, selected offering at 50s. per cwt., and broken at 32s. 6d. on the spot.

CLOVES.—Zanzibar continue slow, with spot sellers at 11d. to 11½d. per lb. as to quality. To arrive, sellers of April-June shipment quote 10½d. c.i.f., and October-December at 8½d. c.i.f. The weekly wharf statistics show that the landings were 627, while the deliveries were 932 bales, leaving a stock of 37,551 bales, against 15,923 bales in 1923.

COD-LIVER OIL.—Our Bergen correspondent writes on May 24 that the cod-fisheries at Finmarken continue favourable. The total output of all the Norwegian cod-fisheries—compared with that of the previous years—is as follows:—

	Catch of cod	Yield of steam refined cod liver oil	Livers for crude oils
To May 17, 1924	52,600,000	92,225 hectol.	15,580 hectol.
" 19, 1923	43,500,000	75,980 "	16,366 "
" 20, 1922	43,100,000	72,470 "	13,744 "
" 14, 1921	36,100,000	53,505 "	12,045 "
" 15, 1920	32,400,000	49,068 "	5,314 "

The market is dull, with but small sales. The price, however, is unaltered and steady at about 90s. per

barrel, c.i.f. London. Rather more business is reported by London agents this week.

GINGER has been in more inquiry; there are buyers of African at about 72s. 6d. to 75s. per cwt., but sellers' ideas are about 82s. 6d. per cwt. It is said that growers, after taking more care in harvesting and preparing, are not satisfied with even the comparatively high prices which African ginger has realised. The general position is becoming clearer, and although the shipments from Africa are likely to be 50 per cent. more than the previous season, they are not expected to be sufficient to make up for the shortage in Cochin and Calicut. Cochin washed rough is quoted at 95s., and January-March shipment at 85s. c.i.f. Calicut is 120s. spot; Cochin B cut, 135s., C, 120s. Japanese is 95s.; and small to bold Jamaica 160s. to 180s. per cwt.

LIME JUICE is rather firmer, good new crop offering at 3s. per gallon; privately 2s. 10½d. has been paid.

MAIZE has been steady at full prices; fair Singapore is 3s., ordinary 2s. 8d., pickings 2s. 6d.; fair to good West Indian is 3s. 3d. to 3s. 6d. per lb.

MAGNESIUM.—A moderate demand prevails at steady rates, ranging from about 3s. 3d. to 4s. per lb. for sticks, according to quantity, and powder is called 4s. 6d. to 5s. 6d. per lb. There is but little offering from the Continent lately.

MENTHOL continues very quiet, with spot sellers quoting Kobayashi-Suzuki at 57s. per lb., afloat at 54s. c.i.f., and June-July shipment at 53s. 6d. c.i.f. The "Paris Maru," from Kobe, has brought 15 cases menthol and 85 cases mint oil to London.

MERCURY.—There has been no new development calculated to influence prices either way, but sufficient evidence exists of the inherent firmness of the general position. This evidence chiefly relates to the sparing offers from Italy or Spain on net c.i.f. terms, the equivalent of which is at considerably above the market on the spot, where quotations on Wednesday stood at £13 5s. to £13 7s. 6d. per bottle, less the usual discount. The trade demand has remained listless, from which it is concluded that there is no urgent need requiring attention. On any important inquiry the market would presumably quickly respond. There are but few serious sellers to be met with, and Continental shippers seem disinclined to make forward contracts.

NUTMEGS are quiet. Singapore 110's offer at 1s. 11d., 80's 2s. 3d., 65's 2s. 6d., and West Indian 100's 1s. 11d. per lb. Some offers of W.I. for June-July shipment are to hand, but shippers' ideas of values are too high.

OPIMUM.—Owing to the proximity of the new crop, which is estimated at from 4,000 to 5,000 cases, it is not anticipated that present prices of opium can be maintained, and some look for cheaper rates in the near future. To-day's spot value of good Turkey druggists' is from about 2s. 1d. to 2s. 2d. per unit, which is about the parity of the quotation from Turkey; little business is being done.

PEPPER is quiet, fair black Singapore offering at 4¾d. per lb. on the spot. To arrive, sellers of June-August shipment quote 4½d. per lb. c.i.f. London, for f.a.q. Lampong is 5d. spot, and for August-October shipment 4d. c.i.f. has been paid; fair Tellicherry is 5d., and Alleppy 4¾d. per lb. on the spot. White Muntok is easier with spot sellers at 7¾d. per lb.; to arrive, June-August and July-September shipments have been sold at 7½d. to 7¾d. and August-October at 7½d. to 7½d. c.i.f.

PIMENTO is quiet at 2¾d. per lb. on the spot, and for shipment sellers quote 22s. per cwt. c.i.f.

RUBBER.—After the recent fall, values have partly recovered, and at one time last week spot touched 11d. per lb., but at the close 10½d. was the value. The lack of confidence which has been shown in all directions has perhaps not been so pronounced during the past few days. There is still room for a further decline, as the market is not being supported with consuming orders. The statistical position remains healthy and stocks were again reduced last week by 756 tons. The London stock now stands at 52,289 tons. Quotations (Wednesday, 5 p.m.):—No. 1 standard crêpe and ribbed smoked sheet, spot and June, 10½d.; July-September, 10¾d.; October-

December, 11d.; January-March, 11¼d. We deal with the position of the article in our editorial columns.

SEEDS.—The market still continues quiet, with prices unchanged. The following are spot values: CANARY SEED is firm, with sales of good quality Mazagan at 29s. per cwt., and inferior at 28s. 3d. CORIANDER SEED, sound Morocco, has been sold at 25s. per cwt.; CUMIN SEED, Malta 112s. 6d., Morocco 110s.; DILL SEED, 20s. to 21s.; FENNEL SEED, Indian 38s. to 40s.; FENUGREEK SEED, Morocco 21s. per cwt.; HEMP SEED, Manchurian 17s. to 22s.; LINSEED, Morocco 27s.; MUSTARD SEED, English 36s. per cwt.

SHELLAC has been dull throughout, sellers of usual standard TN orange offering in bags at 255s.; fine to superfine second orange is 300s. to 360s., AC cakey 265s., and GAL 260s. For delivery, August has been sold at 250s. to 252s. 6d., being slightly cheaper. To arrive, May-June shipment in bags is quoted at 250s. per cwt. c.i.f.

STARCH PRODUCTS.—Dutch farina is slightly easier at 19s. per cwt. on the spot, and 18s. per cwt. f.o.b. is quoted for prompt shipment. American maize starch powder is 16s. per cwt. on the spot, and Dutch is 16s. American maize starch crystals offer at 21s. 6d. net. Dextrin is 24s. 6d. for superior Dutch and 22s. 9d. for No. 2 on the spot. American canary is 19s. 3d., and white 19s. on the spot. Best rice starch crystals offer at 40s. for English, 33s. 6d. per cwt. for Continental.

VANILLA.—At auction six tins and two parcels Seychelles sold, including foxy seconds at 38s., foxy and split 32s. to 35s., loose 10s. 6d. to 12s. 6d.; four tins Mauritius sold, leanish firsts, 8 to 8½ in. 47s. 6d., 6½ to 7 in. 44s. 6d., 4½ to 6½ in. 39s. to 40s.; 12 tins Java sold, including good foxy seconds, 3½ to 7½ in. 30s. to 31s., thirds, 4½ to 7 in. 26s., 3 to 6 in. 21s. to 22s. 6d., and mouldy 13s. per lb.

Essential Oils

BUSINESS is quiet this week and price changes are comparatively unimportant. The position regarding Java citronella is slightly easier, but Ceylon is rather firmer. Star anise oil is cheaper, and Paraguayan petitgrain also shows an easier tendency. Japanese mint oil is lower.

ANISE (STAR).—"Red Ship" on the spot is easier at 2s. 5d. per lb., with sales at slightly less. The price quoted for shipment is 2s. 4¾d. c.i.f.

BAY.—West Indian on the spot is quoted at from 9s. 6d. to 10s. 6d. per lb. as to percentage.

BERGAMOT is unchanged for 37 to 39 l.a., the prices quoted for shipment ranging from 19s. to 19s. 6d. c.i.f. Spot holders quote at from 18s. 6d. to 19s. as to brand.

ROIS DE ROSE (FEMELLE).—Spot holders are quoting 20s. per lb.

CAJUPUT.—Spot is quiet and on the easy side at 3s. 2d. per lb.

CAMPOR.—White essential oil is unchanged at 62s. 6d. per cwt. Brown oil high gravity is 65s.

CASSIA on the spot is steady at 7s. 9d. per lb. for 80 to 85 c.a., and from 7s. to 7s. 3d. c.i.f. to arrive.

CINNAMON.—Ceylon leaf on the spot is offered at 5½d. per oz. in drums; up to 6d. is asked for smaller lots. The price quoted for shipment is 5¼d. to 5½d. c.i.f.

CITRONELLA.—Ceylon on the spot is rather firmer, with sellers on the spot at from 3s. 6½d. to 3s. 7d. per lb. The price to come forward is firmer at 3s. 6d. c.i.f. There is an easier tendency in Java, with spot sellers at 5s. 4d. per lb. Business has been done in July-December at 4s. 10d. c.i.f. which is slightly easier.

CLOVE.—English distilled is quiet but steady at 7s. to 7s. 6d. per lb.

EUCALYPTUS.—There is a small demand for 70 to 75 cineol, the spot quotation for which is 2s. 2d.

GERANIUM.—Bourbon has been better inquired for and is firmer, spot ranging from 35s. to 37s. per lb. For shipment the equivalent of 34s. c.i.f. is quoted.

LEMON on the spot is steady at from 3s. 3d. to 3s. 6d. per lb. The price quoted for shipment is 3s. 5d. to 3s. 7d. c.i.f. to arrive.

LEMONGRASS.—Cochin on the spot is steady at 3s. 6½d. to 3s. 7d. per lb. For post-monsoon shipment sellers quote 3s. c.i.f., with buyers at 2s. 10d.

LIME.—West Indian is firm on the spot at 5s. 1½d. per lb. Hand-pressed is steady at 8s. 6d.

LINALOE.—Mexican wood oil is offered on the spot in small lots at 19s. 6d. to 20s. per lb.

MINT.—Japanese dementholised Kobayashi-Suzuki is cheaper on the spot, with sellers at from 15s. to 15s. 6d. per lb. The price quoted for shipment is 14s. 6d. c.i.f.

NUTMEG.—Spot is unchanged at 6s. 3d. per lb.

ORANGE.—Sicilian sweet is steady on the spot, holders quoting from 12s. 9d. to 13s. 6d. per lb.

PEPPERMINT.—American on the spot is unchanged, with sellers at from 21s. to 21s. 6d. per lb.

PETITGRAIN.—Paraguayan is on the easy side at 8s. 6d. per lb., or a shade less for spot.

ROSEMARY.—Spanish on the spot is offered at from 1s. 7d. to 1s. 9d. per lb. as to quantity. French is 3s.

SPIKE.—Spanish is quiet on the spot, with sellers at 5s. 3d. per lb. French oil is much cheaper on the spot than c.i.f. to arrive, but demand is quiet. There are sellers at from 6s. 6d. upwards.

WINTERGREEN (SWEET BIRCH).—American oil is quoted at 15s. per lb.

Pharmaceutical Chemicals, etc.

CONDITIONS in this market show but little change on the week. Business remains small in volume, but generally the market is quite steady. One or two alterations, mostly slight reductions in value, are recorded. Aspirin, salicylic acid and sodium salicylate are slightly easier.

ACETANILIDE remains slow in demand, with some few spot parcels offering at about 2s. 4d. to 2s. 5d. per lb., B.P. quality.

AMIDOL is steady, with dealers quoting close up to 9s. 9d. per lb., in tins.

AMIDOPYRIN shows no change on the week, with the market dull, at about 13s. per lb.

AMMONIUM BENZOATE is steady but very quiet; quoted at 3s. 5d. to 3s. 6d. per lb.

ASPIRIN is easier on the week and dealers are now offering quantities of good brands from about 3s. 3d. to 3s. 4d. per lb. Business has improved somewhat.

BARBITONE is nominal on an idle market; dealers' price about 15s. 6d. per lb.

BENZALDEHYDE .03 is very steady and little is offering much below about 3s. 6d. per lb.

BENZOIC ACID (B.P.) is quoted at the cheaper rate of about 3s. 6d. per lb. for B.P. on spot.

BENZONAPHTHOL seems of no interest; quoted from 5s. 5d. to 6s. per lb.

BETANAPHTHOL is steady, with supplies short on spot; quoted at about 3s. 6d. per lb. for resublimed.

BROMIDES.—The spot position is anything but steady and the market tends to weaken a little. Supplies and offers are very plentiful and rates are being cut for any business about. Ammonium quoted from 9d. to 10d.; potassium, B.P. crystals and granular, 7½d. to 7½d. per lb.; sodium B.P. crystals and granular, about 8d. per lb.

CALCIUM LACTATE has been called for now and again, with the selling prices about 1s. 7d. to 1s. 8d. per lb.

CHLORAL HYDRATE.—This item is healthy and prices tend to harden a little. Duty paid crystals are 3s. 7d. to 3s. 9d. per lb. Business has been good.

CITRIC ACID (B.P. crystals).—The British makers are reported to have put their price up to 1s. 6½d. per lb., less 5 per cent. Most of the business, however, is likely to have been on a slightly lower basis.

CREOSOTE (B.P.) is steady, with some business about. Dealers continue to quote at about 2s. 6d. per lb.

CREOSOTE CARBONATE shows no life. The value on spot is nominal in the region of 6s. 6d. per lb.

GLYCEROPHOSPHATES.—Makers quote calcium, soluble and citrate free at 7s.; iron, 8s. 9d.; magnesium, 9s.; potassium, 50 per cent., 3s. 6d.; sodium, 50 per cent., 2s. 6d. per lb.

GUAIACOL CARBONATE is fully maintained, with the spot value about 12s. to 12s. 6d. per lb. Only a few lots are offering.

HEXAMINE.—Dealers' prices are about the same as last week, being quoted at about 3s. 8d. to 3s. 9d. per lb.; business has been quieter.

HYDROQUINONE is firm and prices are hardening. Dealers' prices now range from 4s. 3d. to 4s. 6d. per lb., according to quantity. Slightly less for very large lots.

HYPOPHOSPHITES.—Makers quote calcium at 3s. 6d. per lb.; potassium, 4s. 1d.; and sodium at 4s. per lb., in 23-lb. lots.

LACTIC ACID (B.P.)—Dealers' prices are rather firmer and little is offered below 2s. 8d. to 2s. 9d. per lb.

METOL.—The price of 11s. per lb. quoted last week is for minimum one-cwt. lots; smaller quantities are, of course, higher in proportion.

METHYL SALICYLATE is a good market and prices may harden a little. Large lots on spot fully 2s. 3d. per lb.; usual quantities about 2s. 6d. per lb.

METHYL SULPHONAL remains dull, with the quoted price by dealers about 24s. per lb.

PARAFORMALDEHYDE is rather easier this week, with the price for quantities about 3s. 4d. per lb. from dealers.

PARALDEHYDE is rather stronger on spot and little is offered below about 1s. 5d. to 1s. 5½d. per lb.

PHENACETIN.—Dealers' prices are fully maintained here, and on account of stronger Continental conditions the new rates are likely to hold. On spot, from 6s. 4d. to 6s. 8d. per lb. for small lots.

PHENAZONE.—The spot position here is rather firmer and there is little spot available below about 7s. 9d. to 8s. per lb.

PHENOLPHTHALEIN is steady on spot and quoted by dealers at 7s. to 7s. 3d. per lb.; market quiet.

POTASSIUM PERMANGANATE (B.P.)—Dealers' prices are very steady in the region of 7½d. per lb., in drums, and some fair business continues.

POTASSIUM SULPHOGUAIACOLATE shows no life; quoted nominally at about 6s. per lb.

RESORCIN is steadier on spot at about 5s. 9d. per lb., but the demand remains slow.

SACCHARIN 550 is steady at unchanged rates; 62s. 9d. to 65s. per lb.; duty paid, according to quantity.

SALICYLIC ACID (B.P.)—The position on spot shows a slight weakening, and dealers are now offering freely at about 1s. 9d. per lb. for quantities.

SALOL is steadier this week, with the selling price about 4s. per lb.; 4s. 3d. is still asked in some quarters.

SODIUM BENZOATE (B.P.)—Most dealers holding spot supplies, which are limited, are looking for something near 3s. per lb. for good quality.

SODIUM DIETHYLBARBITURATE seems of no interest; dealers quote at about 17s. per lb.

SODIUM SALICYLATE.—The spot position remains irregular on quotation, with the market, if anything, rather weaker. B.P. powder, from 2s. 4d. to 2s. 6d. per lb.; crystals, B.P., from 2s. 6d. to 2s. 8d. per lb.

SULPHONAL remains idle, with the value nominal in the region of 17s. per lb.

TANNIC ACID.—Leviss is offering on spot from 2s. 11d. to 3s. per lb., according to quantity.

TARTARIC ACID (B.P. crystals).—There is still plenty of inquiry on the market, but competition is keen for business and actual selling prices are likely to be something below the quoted rates of about 1s. 2d. to 1s. 2½d. per lb., less 5 per cent.

TERPIN HYDRATE continues to be quoted at 1s. 8d. per lb. on a steady but quiet market.

THYMOL.—Good white crystal from Ajowan seed is firm at 15s. per lb.

VANILLIN.—Spot values continue to hold firm here and the tendency is for the market to advance. Little is offered below about 25s. 6d. per lb. for 100 per cent.

Industrial Chemicals, etc.

London, May 28.

BUSINESS seems to have improved a little of late. Inquiry has certainly been more active, but the complaint of the smallness of orders is still general. Prices are being steadily maintained in the majority of products in this section.

ACETIC ACID keeps steady, with occasional business: 80 per cent. technical, £47; 40 per cent. technical, £23 10s. per ton; 80 per cent. pure, about £49 per ton, in barrels; glacial, 98 per cent., about £69 per ton, in glass demijohns, ex wharf, London.

ACETONE.—The position is steadier and spot supplies are short at the moment. There has been much more inquiry, with dealers quoting in the region of £97 10s. per ton, in drums, for B.G.S.

ALUM remains dull, with dealers quoting about £10 10s. per ton for lump, in casks.

ARSENIC.—There continues to be a feeling of weakness, not only on account of the lack of interest on the part of consumers, but due to the steady offers being made at further concessions in most quarters. It is obvious that those users who are now getting material delivered to them purchased some time ago at much higher prices are most reluctant about re-entering the market. There is no improvement in the state of the American market. The Cornish mines are quoting about £43 to £49 per ton, f.o.r., but the market is rather nominal, with London terms, delivered, in the neighbourhood of £49 10s. Japanese has been offering at around £43, c.i.f.; Grecian is apparently not offering in the depressed state of the market.

BARIUM CHLORIDE is steady, but in poor request; dealers offer 98 to 100 per cent. at about £14 10s. per ton.

BLEACHING POWDER has not livened up at all; dealers quote at about £10 to £10 10s. per ton for 35 to 37 per cent. chlorine.

COPPER SULPHATE.—A steady, fair demand is reported from the Continent, and home makers would appear to hold their ground against outside competition, with their current terms ranging from £24 15s. to £25 5s. per ton f.o.b., for casks, less 5 per cent. The export returns so far this year were certainly very satisfactory, the total for the four months at 25,339 tons showing an excess of about 4,600 tons compared with the same period last year.

CREAM OF TARTAR has not been quite so active of late. British makers' and dealers' prices are competitive at about 85s. to 87s. 6d. per cwt., less 2½ per cent., in one-ton lots.

EPSOM SALTS continue to be inquired for, and spot parcels are quoted close up to £5 2s. 6d. to £5 7s. 6d. per ton, in bags, for commercial quality.

FORMALDEHYDE remains dull, and dealers' quotations in the neighbourhood of £57 10s. per ton, for 40 per cent. volume, are difficult to obtain.

GLAUBER'S SALT of commercial quality has not improved in demand. Dealers quote at about £3 12s. 6d. per ton, in single bags.

LEAD ACETATE on spot is available at about £46 for brown and £48 for white. Prices for shipment are cheaper.

LITHOPONE is one of the best items in this market, and the price is well maintained at about £22 10s. per ton for 30 per cent. Continental red seal. The market is very steady.

OXALIC ACID seems to be in an unsatisfactory position. The price has moved down to about 4½d. per lb., and at this lower level the market is far from steady.

POTASH CARBONATE has been called for fairly well this week, and former prices are being fully maintained: 90 to 92 per cent., about £24; 96 to 98 per cent., about £26 per ton.

POTASH CAUSTIC.—Some occasional business in spot lots of small size has been done with the price for 88 to 92 per cent. solid about £31 per ton, in drums.

POTASSIUM CHLORATE meets with little inquiry. The quoted price on spot is in the region of 3½d. per lb.

POTASSIUM PERMANGANATE is steady, with fair business about. Commercial quality from dealers is at about 7½d. per lb.

POTASSIUM PRUSSIAN.—British yellow from dealers is offering at about 8½d. per lb., but business is far below normal.

SAL AMMONIAC.—Business on spot has been rather better this week, and dealers' prices are being fully maintained, and for some grades the value is inclined to harden a little: dog-tooth crystals, £44 10s. to £45; medium, about £40; fine white crystals, £27 to £28 per ton, on spot.

SODA ASH (58 per cent. light alkali).—British makers continue to quote to home trade at £5 15s. per ton, in bags, f.o.r.

SODA CAUSTIC.—British makers' prices for home trade only, packages free, carriage paid to any station in Great Britain, are unchanged: 70 to 72 per cent., £17 17s. 6d.; 76 to 77 per cent., £19 7s. 6d. per ton, in drums; dealers' prices for shipment are unchanged: 70 to 72 per cent., £15 10s.; 76 to 77 per cent., £17 10s. per ton, in drums, ex wharf, shipping port. British makers' prices for export vary as to destination.

SODA CRYSTALS (carbonate).—British makers' prices for home trade only are unchanged at £5 5s. per ton, in free bags, f.o.r. works.

SODIUM ACETATE on spot is steady, with supplies limited: quoted at about £25 to £23 10s. per ton.

SODIUM BICARBONATE from British makers is unchanged at £10 10s. per ton, in bags, carriage paid, for home trade only.

SODIUM BICHRONATE for home trade only is steady at 4½d. per lb., as quoted by British makers.

SODIUM HYPOSULPHITE.—Pea crystals, in one cwt. kegs, are steady at about £14 10s. per ton, with business quite good. Commercial quality, in casks, is about £9 10s. per ton. These are importers' prices.

SODIUM NITRATE is rather firmer, with the price of 96 per cent. about £13 17s. 6d., and refined about £14 per ton, f.o.r. London docks.

SODIUM PRUSSIAN remains dull, with dealers offering British round about 4½d. per lb.

SODIUM SULPHIDE is still slow of sale. Dealers are offering 60 to 62 per cent. solid at £14 10s., and broken at £15 10s. per ton, in drums.

SULPHUR.—Market quotations are very steady, with crude standing at £5 15s. to £6 per ton for crude, delivered Manchester, and Sicilian is quoted £9 12s. 6d. for flowers, and £7 15s. for roll, ex warehouse. During 1923 America produced 2,036,097 tons, against 1,830,942 tons in 1922, and deliveries totalled 1,613,841 tons, against 1,343,624 tons in 1922, leaving stocks on December 31 at as much as 2,900,000 tons thus indicating on the year an increase of 400,000 tons.

COAL TAR PRODUCTS, ETC.—Following on the changes reported last week, this market is steadier in some directions and there is little in the way of alterations in values to

record. Business remains very moderate in volume. **ANILINE OIL** remains quiet, with British makers still quoting 7½d. to 9d. per lb., naked at works. **ANILINE SALT** is seldom in request, and actual selling prices would be a little under the quoted rates of British makers at 7½d. to 8½d. per lb., naked, at works. **BETANAPHTHOL** is steady but quiet, with prices unchanged at about 1s. 1d. to 1s. 2d. per lb. **TOLUOL**, pure, 1s. 9d. to 1s. 10d.; 90's, 1s. 4½d. to 1s. 7d. per gallon; dealers and British makers continue to quote at these rates, with little doing. **XYLOL**, pure, 3s. 3d.; commercial, 2s. 3d. per gallon; there is no change on the week; business quiet. **CREOSOTE OIL**, which fell away in value last week, remains dull, and is still far from steady: 7½d. to 7¾d., ex works, and 8d. to 8½d. per gallon, f.o.b. **CARBOLIC ACID** crystals show a better inquiry at the reduced prices 6½d. to 7d. per lb., f.o.b., for large quantities. Crude 60's is 1s. 9d. to 1s. 10d. per gallon; market flat. **CRESYLIC ACID** is a bright feature, with inquiry good; quoted at about 1s. 11½d. to 2s. 1d. per gallon, f.o.b., for 97 to 99 per cent. material. **NAPHTHALENE**, although far from active, keeps quite steady at about £17 per ton. **PYRIDINE** is very steady, and inquiry is free, with the market almost stripped of supplies: quoted at about 21s. 6d. to 22s. per gallon. Heavy is 12s. to 12s. 6d. per gallon. **HEXAMETHYLENE** shows but little life; dealers are offering close up to 3s. 9d. per gallon. **PURE METHYL ALCOHOL** from dealers is steady, but in poor demand; price close up to £80 per ton, in drums, ex wharf, London. **PITCH.**—This product has been lifeless for some weeks and the position is still unsatisfactory. The quotation is 52s. 6d. to 57s. 6d. per ton f.o.b.

Fixed Oils, etc.

BUSINESS in some products is fairly good, while in others there is still little interest shown. **Palm oils** and **castor stand firm** at higher rates. **Linseed oil** closes firm, while **American turpentine** is quiet and easier. **ACID OILS.**—The position shows a little further improvement on the week and the market closes steady: coconut palm kernel, 40s.; groundnut, 37s.; soya, about 36s. 6d., all spot. **CASTOR.**—Prices advanced for all grades at the end of last week and the market stands firm: pharmaceutical, 72s.; first pressings, 67s.; second pressings, 64s., all spot, in barrels in not less than one-ton lots. French is weaker, pharmaceutical water-white offering at 72s. per cwt. in barrels and 74s. in cases, ex wharf, London. **COCONUT** remains dull and prices for shipment are easier: deodorised, on spot, 50s.; Ceylon, 45s. 6d. c.i.f.; Cochin, 49s. c.i.f. **COTTON.**—Prices are steadier after last week's reductions, but business is still quiet: deodorised, 51s.; common edible, 49s.; soapmaking, 45s.; crude, 40s., all spot. **GROUNDNUT.**—Prices are unchanged, with the market dull: deodorised, on spot, 55s.; crude Oriental, 49s. c.i.f. **LINSEED** (raw, naked).—The tone of the market at the close to-day was firm, with prices showing but little change on the week. Spot and near were about level, while late positions were somewhat easier: on spot, 38s. 6d.; June, 37s.; June-August, 36s. 9d.; September-December, 36s. 4½d.; Hull, on spot, 37s. 3d.; June, 37s. 3d.; May-August, 36s. 9d.; September-December, 36s. 1½d. **PALM KERNEL.**—Prices mentioned are about the same, with hardly any interest: deodorised, 47s. 6d.; crude, 42s. 6d., all spot. **PALM.**—On the week there is a good improvement to record, both in the volume of business transacted and the tone of the market. Prices for all grades have advanced and close firm: Lagos, 37s.; softs, 36s. 9d.; mediums, 38s. 6d.; hards, 38s. 6d.; bleached, 39s. 6d., all spot. **RAPE.**—A dull market is still reported, with prices unchanged: refined, 51s. 6d.; crude, 48s. 6d., all spot. **SOYA** shows very little movement; quoted rates level on the week: deodorised, 50s.; crude, 42s. 6d., all spot. **TURPENTINE** (American).—Matters have been quieter during the past week, and at the close values for all positions were a few points easier. Total London stocks are returned at 6,330 barrels of American and 700 barrels of French, which shows an improvement of over 1,000 barrels on the week: on spot, 72s.; May-June, 71s.; July-December, 67s. — **WOOD.**—Hankow in barrels is dull, with the quotation at 80s. on spot.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—Lubricating oils remain dull, but with the other products in this market values are steadily maintained. There is little or no change to record on the week. **BENZOL.**—The British makers continue to quote at unchanged rates, with business up to average: crude 65's, 10½d. to 1s.; standard motor, about 1s. 6d.; and pure, 1s. 8½d. to 1s. 10d. per gallon, ex works, in tank wagons. Prices including drums, f.o.b., about 6d. per gallon more. **FUEL OIL.**—This market keeps very steady at unchanged figures: 890 gravitv. £5 7s. 6d.; 950 gravitv. £4 7s. 6d. per ton, ex tank. **PARAFFIN WAX** and **SCALE.**—Wax is again rather easier on the week, although there is very little change in prices, which run from 3½d. to 5½d. per lb., according to melting point, in bags. Scale

remains dull, with the quotation at about 27s. per cwt., c.i.f. U.K. port. SOLVENT NAPHTHAS.—Business has been limited and prices as quoted are not steady: 90 to 160, about 1s. 4d. per gallon; heavy, 90 to 190, 1s. 2½d. to 1s. 3d. per gallon. PARAFFIN OILS.—American oils are steady: standard white, 1s. 1d.; water-white, 1s. 2d. per gallon, barrels free. Russian prime white kerosene is very steady; 6½d., ex tank; 7d. to 7½d., buyers' barrels filled free; and 10½d., barrels free, ex wharf, London. PETROLEUM JELLIES keep steady. There is no change on the week: snow white to white, £69 to £64; amber and yellow, £25 to £28; red vet, £22; dark stiff green, about £21 per ton, ex wharf London, barrels free. WHITE OILS.—There is no change to record here: special No. 1, £44; No. 1, £38; No. 3 half-white, £30; No. 4 half-white, about £20 per ton, in free drums and barrels, ex wharf, London. LUBRICATING OILS.—Spot values are quoted at level rates on the week. The market has remained decidedly quiet, but an improvement in demand is expected in the course of the next week or so. Shipment quotations are reported steady: pales, £14 to £27; reds, £15 to £28; dark cylinders, £17 10s. to £37; filtered cylinders, £23 15s. to £43 per ton, less 2½ per cent., ex wharf, London. SOLUBLE OIL, steady at £29 per ton, net. No. 1 RUSSIAN OIL continues to meet with good business, with spot supplies limited; quoted at £19 15s. per ton, less 2½ per cent., ex wharf, London.

London Drug Auctions

Commercial Sale Rooms,
Mincing Lane, E.C.3. May 29.

A FAIRLY moderate supply of drugs offered at auction, but the tone showed no improvement on recent public sales and was merely a reflex of business conditions privately. The absence of demand for staple drugs like aloes, benzoin, cardamoms, dragons blood and senna was noticeable. Honey was flat and easier for the medium grades, but good quality is maintained. Ipecacuanha was slow but steady where sold. Myrrh remains cheap. Grey Jamaica sarsaparilla was 3d. per lb. dearer, while native Jamaica was about steady. Both Tinnevely and Alexandrian senna were quite neglected; beeswax was scarce, and where sold brought full prices. The following table shows the quantity of goods offered and sold, the asterisk denoting private sales:—

	Offered	Sold		Offered	Sold
Aconite root ..	29	0	Fennel seed ..	25	0
Ajowan seed ..	94	0	Fennel oil (dms.) ..	2	0
Albume ..	2	0	Galangal ..	38	0
Aloes—			Galbanum ..	5	1*
Cape ..	92	0	Gambier ..	1	0
Zanzibar ..	8	0	Gamboge ..	29	0
Ammoniacum (cs.) ..	27	0	Gentian ..	5	2*
Angelica root ..	3	0	Ginger ..	10	0
Anise (Russ.) ..	117	0	Gingergrass oil (pots) ..	2	0
Annatto seed ..	266	17	Guaiacum ..	22	4*
Argol ..	4	0	Guaiacum ..	75	0
Asafetida ..	177	0	Gurjun oil ..	5	0
Balsam peru ..	4	0	Henna leaves ..	239	17
Balsam tolu ..	10	0	Honey—		
Benzoin—			Calif. ..	324	0
Palembang ..	20	0	Cuban ..	50	0
Siam ..	44	2	Jamaica ..	498	24
Sumatra ..	215	0	New Zealand ..	30	0
Buchu ..	67	4	San Domingo ..	60	3*
Burdock root cwt. ..	20	0	St. Lucia ..	7	0
Calumba ..	197	0	Ipecacuanha—		
Camphor oil ..	4	0	Cartagena ..	1	1
Cannab. Ind.—			Matto Grosso ..	63	12
African ..	18	0	Minas ..	5	0
Bombay ..	1	0	Jaborandi leaves ..	29	2
Cantharides (Ch.) ..	22	0	Jalap ..	3	0
Caraway seed ..	4	0	Jalap powder ..	22	0
Cardamoms ..	303	15	Jambul seed ..	18	0
Cascarilla ..	3	1*	Kamala ..	4	0
Cashew nuts ..	74	74	Kino (Afr.) ..	27	0
Cassia fistula ..	112	20	Kola ..	10	0
Celery seed ..	9	0	Lemon oil (cs.) ..	2	0
Chamomiles ..	10	0	Lemongrass oil (dms.) ..	4	0
Cinchona ..	168	7	Lime juice ..	22	0
Cinnamon bark oil ..			Lime oil .. (dms.) ..	2	2
(cs.) ..	12	0	Liquorice powder ..	10	0
Civet (hrns) ..	14	0	Liquorice root ..	30	0
Cochineal ..	11	0	Lobelia herb ..	5	5
Cognac oil ..	1	0	Musk seed ..	4	0
Colocyth ..	57	0	Myrrh ..	133	8
Copaiba balsam ..	7	0	Nux vomica ..	17	10
Coriander seed ..	529	0	Olibanum ..	229	1
Cubebs ..	80	0	Orange oil, sweet, ..		
Cumin seed ..	67	0	(tins) ..	20	0
Cuttlefish bone ..	274	0	Orange peel ..	59	2
Damiana leaves ..	3	0	Patchouli leaves ..	27	0
Dragon's blood ..	101	0	Peppermint oil ..		
Elemi .. (cs.) ..	82	0	(dms.) ..	5	0
Ergot ..	23	5	Rhapontica root ..	20	0
Eucalyptus oil ..	32	0	Rhubarb (Ch.) ..	165	69
Euphorbia pil. ..	26	0	Salep ..	1	0
			Sandalwood ..	221	0

	Offered	Sold		Offered	Sold
Sarsaparilla—			Squill ..	20	0
Grey Jamaica ..	30	11	Stramonium leaves ..	10	0
Guayaquil ..	10	0	Strophanthus ..	8	0
Lima-Jamaica ..	27	0	Tamarinds (Cal.) ..	45	0
Mexican ..	10	0	Taraxacum ..	11	0
Native Jam. ..	35	14	Tragacanth ..	84	4
Scammony (cs.) ..	4	0	Turmeric ..	127	0
Scammony root ..	31	0	Wax (bees)—		
Seedlac ..	14	0	East African ..	100	0
Senna and pods—			East Indian ..	39	0
Alex. ..	347	4	Jamaica ..	5	5
Mecca ..	15	0	Zanzibar ..	16	12
Tinnevely ..	107	4	Wax, Carnauba ..	12	0

On the suggestion of Mr. Andrew Devitt (Lewis & Peat, Ltd.) the members of the drug trade assembled at the auction passed a vote of condolence to the widow and family of the late Mr. Richard Quincey (R. Quincey & Son). Mr. Quincey had attended the drug auctions for many years past, and was an old and highly esteemed member of the trade. Mr. Groom seconded the proposal.

ACONITE ROOT.—Fourteen bags fair *Napellus* were offered and bought in at 190s. per cwt., and 15 bags Indian were bought in at 85s.

AJOWAN SEED.—A lot of 94 bags fair from Bombay offered and were bought in at 20s. per cwt.

ALOES.—No Cape sold. A bid of 40s. is to be made for 11 cases good bright hard firsts, 42s., being wanted. Six cases fair hard liver to black and part very skinny Zanzibar in skins, in cases, were bought in at £7 5s. per cwt. Eighty-four packages aloes have arrived from the Cape.

AMMONIACUM.—Six bags good pale loose tear, slightly seedy, were retired at 1s. 2d. per lb., the limit being 1s.

ANNATTO SEED was in good supply, the offerings comprising 26 bags good bright Madras, which were bought in at 1s. 6d.; 17 bags good bright Jamaica, but sugar damaged, sold without reserve at from 8d. to 10½d. per lb. The private value of sound is 1s. 5d. to 1s. 6d. per lb.

BALSAM PERU.—Four cases with a cinnamon content of 52.3 per cent. offered and were held for 8s. per lb.

BALSAM TOLU.—Ten cases fair softish were offered and bought in at 6s. 6d. per lb.

BENZOIN.—Of Siam, two cases good pea and bean size almonds sold at £24 per cwt.; small to medium loose tear was held at £23 to £20, and for small to extra bold pale loose almonds £30 10s. was wanted. No Sumatra sold, fair to good almondy seconds offering at £7 to £9 10s. per cwt.

BUCHU was in large supply, with small sales at firm prices, comprising three bales fair round green, slightly stinky, at 2s. 11d. subject to 3s. per lb. Good green ovals were held at 2s. 8d.; good green longs at 2s. 8d. per lb.

BURDOCK ROOT.—Twenty bags inferior Belgian offered and bought in at 50s. per cwt. The private price is 60s. for good, sound, clean.

CALUMBA.—A lot of 76 bags good clean medium to bold sorts were offered and bought in at 15s. per cwt. Another lot of 105 bags ordinary dull sorts was bought in at 10s. per cwt.

CANNABIS INDICA.—A single case of fair Bombay tops offered and held for 25s. per lb.

CANTHARIDES.—A lot of 12 cases fair Chinese was bought in at 4s. per lb.

CARAWAY SEED.—Four bags rather dull part stinky Morocco were retired at 92s. 6d. per cwt.

CARDAMOMS.—Sales were quite retail, comprising two cases Ceylon Mysore medium to bold good pale at 6s. 8d., five cases medium ditto at 5s. 6d. to 5s. 8d., and one case small pale at 5s. 2d. Three cases Ceylon decorticated seed sold at 6s. per lb., being easier. A parcel of 57 cases Indian from Calicut offered and bought in, comprising bold to extra bold long pale at 8s. 6d., medium to bold ditto at 7s. 6d., bold pale splits 7s. 6d., bold and medium pale splits 7s. 3d., brown and split 6s., medium round pale Mangalore character at 7s. 6d. per lb.

CASCARILLA.—Two bales of partly dusty siftings were limited at 1s. 6d. per lb.; one had been sold privately.

CASHEW NUTS.—A lot of 74 cases very husky sold at 42s. per cwt., subject to seller's approval.

CASSIA FISTULA sold steadily, twenty bags St. Lucia realising 30s. per cwt. for fair pod part rattley. This is also the price asked privately. The offerings included 48 baskets ordinary pod, part very wormy, from Macassar, which were retired at 20s. per cwt.

CHAMOMILES.—Ten bales ordinary very dull Belgian flowers offered and bought in at 330s. per cwt.

CINNAMON BARK OIL.—Twelve cases Ceylon, catalogue as "cinnamon bark oil," were bought in at 3s. per oz. Sage's analysis showed, sp. gr. at 15.5 deg. C., 1.0402; refractive index at 25 deg. C., 1.5509; optical rotation -0.6; aldehydes, 25 per cent.; phenols, 52 per cent.; soluble in 2 parts and upwards of 70 per cent. alcohol.

COLOCYNTH.—Twenty-seven bales fair yellowish pale pulped and were bought in at 9½d. per lb. Another lot of 26 bales good pale pulped was held at 1s. 1d.

COPAIBA.—Five cases filtered B.P. were offered and bought at 2s. 3d. per lb.

CORIANDER SEED.—A lot of 529 bags fair Morocco were offered and bought in at 22s. 6d. per cwt.

CUMIN SEED.—A lot of 67 bags fair Morocco was bought at 105s. pr cwt.

CUTTLE FISH BONE was more plentiful. A lot of 212 bales East Indian was printed, of which 100 were offered, consisting of medium to extra bold pale selected; they were offered at 1s. 8d. per lb. Medium to bold part damp sorts (3 bales) and ditto mixed with straw (19 bales) were also bought in. Of Mediterranean, 23 bales small to bold whole fish offered and bought in at 1s. per lb.

DAMIANA LEAVES.—Three bales fair were limited at 1s. per lb., but a bid of 10½d. is to be submitted.

DRAGON'S BLOOD was in plentiful supply, the bulk of middling quality only. The offering included six cases common Singapore block, for which £3 5s. was wanted; dull fair slab was held at £15 to £18 and upwards, Zanzibar top at £8, and *Reed* was held at £16 10s. The "Paris aru" has brought 23 cases from Singapore to London.

EGROT.—Five bags fair, sound, rather greyish and rusty, Spanish sold at 1s. 1d. per lb. Privately the price is 2d. per lb.

EUCALYPTUS OIL.—A parcel of 32 cases was offered and bought in, comprising B.P. 85 per cent., 77 per cent., and 70 per cent. at 2s. 1d. per lb.

GALANGAL ROOT of fair quality (38 bags), was bought in at 27s. 6d. per cwt.

GALBANUM.—For four cases fair quality 3s. 6d. per lb. as wanted; a case had been sold privately.

GENTIAN.—Three bales fair offered and held at 38s. per cwt.; two had been sold privately.

GUAIACUM.—Four barrels ordinary drossy block offered without reserve had been sold privately. It is somewhat unusual to offer goods "without reserve" and dispose of them privately.

HENNA LEAVES.—A parcel of 19 bales sold without reserve, comprising 13 bales small brownish leaf, dusty and broken, at 35s. to 37s. 6d.; two bales very stalky, broken and second-class, sea damaged, sold at 20s. per cwt.

HONEY.—Flat; better qualities were held for previous prices, but cheaper grades were held considerably above recent ideas of buyers, and only 18 packages sold. White at Jamaica sold at 62s. per cwt. for five packages, and pale liquid amber went at 57s. to 60s. per cwt. The value of white set Californian is 70s. per cwt., and pale set New Zealand 70s. to 80s. per cwt.

IPECACUANHA was slow of sale. Fair sound leanish and good bright Matto Grosso was obtainable at 9s. per lb. Five bales of sea and water-damaged sold at from 8s. 8d. to 8s. 10d. per lb. Three bales ordinary lean bright part stemmy Matto Grosso sold without reserve at 8s. per lb. A small bale of good fair grey Cartagena sold at 7s. 9d. per lb. The "Gallic" from Monte Video, has brought 95 bales.

JABORANDI LEAVES.—Two bales small brown from Parnayba sold without reserve at 2d. per lb.

KOLA was in small supply, ten bags of dull Ceylon, whole and halves, were offered and held at 2d. per lb., a bid of 1½d. being refused. This drug appears to be scarce judging by the quantity offered at auction.

LEMONGRASS OIL.—Four drums Cochin containing 75 per cent. citral (Salamon & Seaber), were bought in at 2½d. per oz.

LIME OIL.—Two packages West Indian distilled sold without reserve at 2s. to 3s. per lb. for inferior quality. Fair distilled is worth 5s. 3d.

LOBELIA HERB.—Five bales loose sold at 1s. 7d. per lb., being the valuation.

MYRRH.—Two cases good Aden sorts slightly blocky sold at 26 10s. per cwt., and six bags ordinary dusty sorts went at 90s. per cwt.

NUX VOMICA.—Seven bags good small heavy Cochin were offered and bought in without mention of price; 10 bags ordinary sold at 15s. per cwt., subject to sellers' approval.

OILS (ESSENTIAL).—Twenty-two packages Spanish offered, comprising one drum sweet fennel oil (pure, anethol approx. 55 per cent. Parry) were bought in at 2s. 9d. per lb.; one drum bitter fennel (pure, wild bitter, Parry) at 2s. per lb.; and twenty tins sweet orange oil (pure, high in extractive matter, no added fatty matter, Parry) were bought in at 7s., the broker intimating sales at 6s. 6d. per lb.

ORANGE PEEL.—Seventeen cases fair bright new crop Tripoli strip offered and bought in at 9d. Two cases very

dark common dull strip sold without reserve at from 2½d. to 3½d. per lb. The private price of fair new crop is from 7d. to 9d. per lb.

PEPPERMINT OIL.—Five cases American (Buffalo brand), guaranteed genuine, with printed analysis, were bought in at 22s. per lb.

QUILLAIMA of fair quality, was held at 35s. per cwt.

RHUBARB.—The bulk of the sales were without reserve and sold cheaply, comprising 40 cases medium to bold round, rough, High-dried, with two-thirds dull pinky fracture and one-third grey at 11d. to 1s. per lb.; also small to bold, flat, High-dried two-thirds dark and one-third greyish fracture, slightly wormy, at 1s. 1d. Four cases common medium size, round *wild* Shensi, with three-quarters dull pinky fracture and one-quarter dark, slightly wormy, at 1s. 4d. to 1s. 6d. Three cases small round *wild* Shensi, part stalky, with three-quarters ordinary dull fracture, at 1s. 4d. per lb. Four cases medium round Canton, two-thirds greyish to dark and one-third pinky, at 1s. 9d.; ditto, part stalky, at 1s. 11d. per lb. Under usual condition, two cases High-dried, bold, rough, round, with two-thirds pinky and one-third grey fracture, sold at 1s. 7½d. per lb. Two cases rough Shensi pickings realised 2s. 6d. per lb., and an odd cask of small and part stalky Shensi, with three-quarters fair pinky fracture, sold at 3s.

SARSAPARILLA was about steady for native Jamaica, 12 bales of which sold at 1s. 6d. for ordinary yellow and red mixed to yellow, 1s. 7d. per lb. for tawny, and 1s. 8d. for good red. Ten bales Mexican were held for 1s. 4d. per lb.. Of 15 bales grey Jamaica, six sold at 2s. 3d. for good fair fibrous, being 3d. per lb. higher; part mouldy sold at 2s. From another catalogue two bales rough grey Jamaica sold at 1s. 7d. Eight bales Lima-Jamaica were limited at from 1s. 6d. to 1s. 8d. per lb.

SCAMMONIUM.—A single case of virgin gum (test 71 per cent. rosin soluble in ether) was offered and bought in at 45s. per lb., broker intimating he would take less.

SOAMMONY ROOT.—A lot of 31 bags sold without reserve at 14s. per cwt., being cheap.

SEEDLAC.—Four cases from Singapore, mostly good bright red to slightly darkish, offered and held for 310s. per cwt.

SENNA was neglected, no Alexandrian or Tinnevely leaf being sold. Four bales fair siftings realised 5½d. per lb.; fair broken leaf was obtainable at 8d. to 10d., and three-quarters leaf at 1s. to 1s. 2d.; pods at from 7d. to 1s.

SQUILL.—For twenty bags inferior red 15s. per cwt. was wanted.

STRAMONIUM LEAVES.—Ten bales inferior thin, shrivelled, and stalky Cape were offered, but no bid was made, and the parcel was retired at 20s. per cwt.

TURMERIC.—A lot of ten bags good Madras finger was bought in at 70s. per cwt. Cochin bulbs are held for 25s. per cwt.

WAX, BEES', was in very small supply. Of Jamaica five packages offered and sold at £8 per cwt. for fair block of mixed colours, being steady. Thirty-two fair brown blocks East African wax sold at £6 10s. per cwt., also being steady. Twelve bales Zanzibar sold at £6 10s. per cwt. for fair block.

WOOD OIL.—Five barrels African balsam lying in Liverpool were bought in at 57s. per cwt. London analysis showed: sp. gr. at 15.5 deg. C., 0.990; acid value, 48; oil, 55 per cent.

Spanish Olive Oil

EXACT figures regarding the yield of oil from the last olive harvest are not yet available, and the estimates range from 180,000 to 230,000 tons. This uncertainty is due to the fact that whereas very large quantities were obtained in certain districts in the province of Jaen, there was a shortage in Cordoba, Sevilla, Malaga and Valencia, which was even more pronounced in Ciudad Real, Toledo, Guadalajara and Madrid, while in Aragon, Lerida and Tarragona the harvest was a complete failure. The production of olive oil in Spain has steadily declined since 1918, when it amounted to 356,000 tons, to 1922, in which year 270,000 tons were produced, of which 35,000 tons were exported. The home consumption aggregates 240,000 to 260,000, about 10 kilos per head of the population. Owing to the very large demand for olive oil from foreign countries, particularly Italy, following the almost general failure of the olive harvest last year outside Spain, the price began to rise rapidly, from 152 to as much as 217 pesetas per 100 kilos, between December 1923 and February 1924, and were it not for the introduction of the export levy, it is stated that the price might have reached 300 pesetas, or even more. At present there are about 20 olive oil refineries in Spain.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

The Council Election

SIR,—Your leading article on the Pharmaceutical Society's Council election sums up the position admirably. Next year it is to be hoped that fewer than 146 papers will be wasted through being unsealed, unsigned, or through some other disregard of the rules, and that more than half the voting papers will be returned and in proper order. Is it a sign of apathy than 1,198 votes were given to a candidate who had withdrawn from the contest? Did the members who voted for him leave his name on the papers because they knew nothing against him, or for territorial reasons? The practice of candidates withdrawing after nomination is getting too frequent; we had the same thing occur two years ago. If a candidate withdraws after nomination, but before the voting papers go out on any other occasion, I think that his name should be deleted from the voting paper by means of an official imprint. The question of sealed envelopes, to which you draw special attention, is one that requires investigation. There are certainly many lessons to be learned from the election of 1924, and I expect that we shall hear something of them from our pharmaceutical Journalists.—Yours faithfully,

THOMAS MARNES.

Ealing, W.5.

SIR,—May I ask for the assistance of your valuable journal to convey my sincere thanks to those members who supported my candidature and assisted in returning me as a member of the Council, and also to extend my thanks to the numerous friends who have forwarded messages of congratulation? It will be my endeavour to merit the confidence placed in me by giving careful consideration and a keen application to all matters brought before the Council, so that I may be justified at the end of my term of office in again appealing for support.

Yours sincerely,

THOMAS HARDY.

Maryport.

Mr. Thos. Guthrie, Glasgow, also writes to express his grateful thanks to the electors for the renewal of their confidence.

SIR,—Shall I confess to having joined the Ancient Order of Mugwumps (*vide* "Xrayser II")? For the first time since I have been a member of the Society, I have not recorded my vote at the annual election. No, I am not apathetic, neither am I indifferent; I studied my voting paper for a considerable time, and failed to arrive at a decision. And the cause of my indecision is briefly as follows: I have not had the pleasure of knowing any of the candidates personally; indeed, I have never seen the majority of them, although I have heard on occasion one or two speak at local meetings, when the views expressed have been mostly reiteration of official dicta; none of them comes from my locality, and so the first factor for supporting any individual, the personal touch of interest, is absent in my case. Then the *bloc* system of appeal on behalf of the retiring councillors did not recommend itself to me, and I knew nothing about the new candidates. Even if we succeeded in getting one new councillor at each election, it would be twenty-one years before we had a new Council; the rate of change would be no speedier than the usual rate effected by the normal attrition of time, and the new blood at such a slow rate of transfusion is more likely to be lost in the old stream than to impart fresh vigour to it.—Yours, etc.,

MUGWUMP (22/5).

A Personal Retrospect

SIR,—I have read with great interest your reprint from THE CHEMIST AND DRUGGIST of May 15, 1874 (*C. & D.*, May 24, p. 748). I was then seventeen years old, and apprenticed to Mr. John Ritchie, 11 Morrison Street, Edinburgh. I remember Dr. Craig relating to Mr. Ritchie the incidents connected with Mr. Sadler's *contretemps*. Mr. Sadler and Dr. William Craig were intimate friends; and hardly a week passed without Dr. Craig calling to see John Ritchie. Some year or so after, Dr. Craig was a candidate for the chair of *materia medica* in Edinburgh University, and I used to be of some assistance in the translation of some few testimonials of Paris physicians who favoured Dr. Craig. About then he was conducting some investigations on aloin: we had the rabbits in our back shop. The faeces were accurately weighed, and notes of the purgative properties taken. The doctor read papers on the results of his work at a subsequent meeting of the Pharmaceutical Society in Edinburgh: possibly it would be the medical faculty's "Journal" that it appeared in. I had for years a copy of it given me, as one of Dr. William Craig's students at his first session (1874), when he was lecturer at the extra-academical School of Medicine, in Chambers Street, on *materia medica* and therapeutics. . . . These were the days of real absorbing interest in the drug trade. It was *drug*, not packed proprietaries and patent medicines! But "*sic transit gloria mundi*."—Yours faithfully,

Portsmouth.

ALEX. CHISHOLM.

Apprenticeship

SIR,—"Xrayser II" detects an absurdity (*C. & D.*, May 24, p. 729) in part of an Aberdeen branch resolution, namely, suggested compulsory registration prior to apprentices commencing work, and states that the Society has no right or power for such. We think the Society should acquire both. "Xrayser II" should not dissociate the last part of the sentence—"and, simultaneously, a registered 'agreement' (or indenture) with the Pharmaceutical Society." Many apprentices defer registrations till too late, and clever lads sometimes break away from pharmacy who would have remained if held by such an additional bond. The Aberdeen Branch would like registration and agreement or indenture incorporated in one by-law and made a *fait accompli* before entering pharmacy; this would give entrants the dual feeling of security and the Society's interest in them, individually. Apprenticeship to the Society, which "Xrayser II" mentions, of course, is absurd.—Yours, etc.,

Hon. Sec., Aberdeen Branch.

W. WATT.

Where are our Qualified Men?

SIR,—Is the question of unemployment for qualified men becoming less acute? I am prompted to ask this, not only by reason of the increased number of "Situations Open" compared to "Situations Wanted" in the *C. & D.* Supplement, but also by a recent experience of my own. Requiring a qualified assistant for a period of several weeks, I inserted an advertisement—and received four replies! Two of these were from ladies with the "Hall" certificate, one from a man who lived right at the other end of the country, and the last from one to whom I wrote and heard nothing further. It could not have been a question of salary, as the advertisement asked applicants to state their own terms; and I can only conclude that the employment crisis is not so acute as it was. When I first became qualified, years ago, young men were always ready to take up temporary work, partly with a view of gaining a variety of experience, and partly through a desire not to be idle while looking for a suitable permanency: perhaps this course does not commend itself to the modern assistant. I am curious to know whether my experience coincides with that of other pharmacists in similar case. With regard to the ladies, I think it would save a lot of disappointment to holders of such certificates if they would realise that an advertisement for a qualified assistant in the *C. & D.* refers to a registered chemist and druggist.—Truly yours,

ADVERTISER (24/5).

Legal Queries

D. A. B. (13/5).—The practice you refer to is illegal.

A. A. (20/5).—Quinine and its salts are excluded from the operations of the Safeguarding of Industries Act.

A. E. C. (25/5).—Dionin is not one of the "dangerous" drugs covered by the Dangerous Drugs Acts.

L. J. S. (22/5).—A month's notice to assistants to leave is the custom in the drug trade, and can be enforced in the courts unless there is an agreement to the contrary.

N. L. (21/5).—Preparations which when used are burnt, such as asthma powders, are not liable to medicine-stamp duty, the reason being that the substance sold is not administered for asthma.

I. A. (20/5).—In cases in which a chemist changes his name after qualification the Pharmaceutical Society of Great Britain, when requested, issue a new certificate in the new name. It is necessary to return the old certificate and supply evidence that the name has been changed.

Lex (24/5).—The conditions regarding wholesale dealing in statutory poisons are given in *The Chemist and Druggist Diary*, 1924. The wholesaler need not necessarily be qualified under the Pharmacy Acts, but if "dangerous" drugs are sold a licence must be obtained from the Home Office.

Nero (25/5).—To reproduce illustrations or matter from published works without permission would be an infringement of the copyright of the author of the book. If, as you state, you require to use the matter in an advertisement for a proprietary article the author would probably take action against you without delay.

F. I. C. (27/5).—(1) The formation of limited companies is dealt with in detail in *The Chemist and Druggist Diary*, 1924, p. 279. (2) A qualified assistant cannot act as "cover" for an unqualified person carrying on the business of a chemist and druggist. (3) Particulars of the examination requirements of the Pharmaceutical Society are given in the Educational Number of THE CHEMIST AND DRUGGIST.

A. P. (21/5).—(1) Cocaine anaesthetic can be supplied to a dental surgeon on such *bona fide* acquaintance as you mention, providing he gives you the usual signed order. You may supply the anaesthetic by registered post to other dental surgeons providing you get signed orders from them and know the orders to be genuine. (2) Your method of registration is quite correct. (3) If supplied to a dentist in Ireland an export permit will be required.

C. H., Ltd. (Jamaica) (9/5).—As a result of war legislation, compulsory licences were granted in England for the manufacture of several chemicals, until then made only in Germany, examples being salvarsan and novocain. In addition, several trade-marks which had been owned by alien enemies were voided—i.e., made public properties. Examples are lysol, sanatogen, and formamin. This war legislation only applied to Great Britain and Ireland.

F. B. M. (23/5) has bought a job lot of proprietary goods. Does he run any risk by exposing them for sale in his shop? He is not an agent for the manufacturers, nor does he usually sell their goods. [We assume that "F. B. M." has not entered into any agreement as to the sale of the goods, in which case he is at liberty to sell them without restriction. The conditions frequently attached to the sale of proprietary articles cannot be enforced unless it can be shown that the seller expressly, or by implication, accepted the conditions and agreed to observe them.]

Benzene (25/3).—(1) A person can carry on his business under any name he chooses, providing that it does not infringe the rights of other persons. The name must also be registered under the Registration of Business Names Act. (2) An alternative is to register the business as a limited company. (3) Common law rights are sufficient to prevent anyone else using a distinctive business title employed by someone else. (4) The title "pharmacy" can be used as the description of business

premises by unqualified persons, but such use tends to deceive the public into the belief that a chemist's business is being carried on.

E. C. (21/5) has been given verbal notice to quit a cottage in which he resides, his landlord stating that he requires the cottage for the occupation of his gardener. The landlord offers "E. C." two years' tenancy of another cottage. Is "E. C." bound to give up possession? [In our view it is unlikely that the Court would order "E. C." to vacate the cottage, as the "alternative accommodation" offered by the landlord does not offer the same security of tenure that "E. C." has at present. In the circumstances, we advise "E. C." to refuse to give up possession until his landlord finds another cottage for him which he may reasonably hope to occupy so long as the protection of the Rent Restriction Acts lasts.]

D. L. (25/5) writes to say that he is one of two executors, and also a beneficiary, under the will of a relative who died a few years ago, leaving an only child, a daughter. The property of the deceased was in land and cottages, bringing in a gross rental of about £60 a year. The will provides that the whole of the income from the property is to be devoted to the maintenance of the daughter during her lifetime, and on her demise the corpus of the property is to be distributed in certain shares amongst six beneficiaries, of whom "D. L." is one, his share being one-tenth. This year, for the first time, the income-tax inspector claims that for income-tax purposes the income is to be regarded as divided into the ultimate shares going to the beneficiaries, tax being paid on each share as received and then repayment of it claimed by each beneficiary. "D. L." asks if that is the law. [Assuming that the purport of the will is correctly given in the question, the inspector's view is quite wrong. The income is that of the daughter during her life, and so long as she is alive the ultimate beneficiaries are entitled to no income which could be taxed. The attitude of the inspector in putting forward such a view as he has is so strange as to suggest a doubt as to whether "D. L." has got the terms of the will correctly.]

L. B. (13/5).—The exemption from medicine-stamp duty of "known, admitted and approved" remedies to which you refer applies to chemists or companies carrying on the business of a chemist and druggist in accordance with the Poisons and Pharmacy Act. The exemption in the Medicine Stamp Act, 1812, applies the exemption to non-secret remedies sold by legitimate dealers—e.g., chemists. There were no registered chemists at the time the Act was passed, but the standard taken was the production of apprenticeship indentures. When the Pharmacy Acts were passed the Register of Chemists and Druggists was taken as giving the names of persons to benefit by the exemption. When in 1908 the carrying on of the business of a chemist by companies was regulated, companies were held to benefit by the exemption so long as the business is carried on in conformity with Section 3 (4) of the Poisons and Pharmacy Act. A company in the first place must have power in its articles to carry on the business of a chemist and druggist, and must also send to the Pharmaceutical Society the name of a registered chemist who is to act as the *bona fide* superintendent. The manner of taking advantage of the exemption is to give the composition of the article on the label or give on the label a reference to a standard work of reference (i.e., one which the Board have definitely recognised) where the formula will be found. It is necessary also to avoid other claims of proprietary rights on the labels and handbills, such as stating that the article is "prepared only" by so-and-so or using a trade-mark or name in the possessive case.

Appreciations

I find your worthy publication of great use, and especially the *C. & D. Diary*, which is invaluable.—R. H. E., 1/55.

Please allow me to tell you that I have found your valued journal so very interesting that I cannot do without it a single week.—J. R. M. M. (India) (1/5).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. A. (19/5).—BOOK ON MANUFACTURING CHEMISTRY.—Thorpe's "Dictionary of Industrial Chemistry" (5 vols. Longmans. £2 5s. per vol.) is the most complete work on the subject.

P. S. (19/5).—WRINKLE REMOVER.—The treatment used for removing wrinkles from the skin consists of the application of towels wetted with very hot water and subsequent massage with lanolin. Another method, more risky, is to apply white of egg containing mercury perchloride (1 grain in 10 oz.) and allowing successive coatings to dry upon the face without moving the muscles of the face.

W. B. D. (19/5).—REMOVING DYE STAINS FROM THE SKIN.—There is no one chemical that will answer in all cases of dye-stains. The substances used are citric acid (a cut lemon rubbed on the skin), chlorine (in the form of bleaching powder), sodium sulphite or sulphurous acid, and permanganate of potash followed by oxalic acid.

Carbon (16/5).—DECARBONISING MOTOR ENGINES.—Low grade or light paraffin is used for this purpose. This has a loosening effect on the carbon deposit by dissolving the oil between the particles of carbon. The paraffin is injected through the sparking plug aperture overnight, preferably with the piston at top of stroke. When the engine is run the next morning the carbon is blown out into the exhaust as a sooty powder.

W. R. (17/5).—DAMP-WALL TREATMENT.—See *C. & D.*, August 25, 1923, p. 316.

W. H. N. (19/5).—BISMUTH AND IODOFORM PASTE ("B. I. P. P").—The formula is as follows:—

Bismuth subnitrate	...	...	1 oz.
Iodoform	...	...	2 oz.
Liquid paraffin to make a thick paste.			

J. H. H. (5/5).—ZINC PRINTING BLOCKS.—There are various solutions employed in making printing blocks, the composition depending upon the process employed. It would be better to recommend your customer to obtain a book on the subject, such as Verfasser's "Half-tone Process" (Iliffe & Sons, 5s.). It requires much practice and experience to produce good blocks.

D. A. (2/4).—Full particulars were given in the *C. & D.*, January 12 and 19, regarding the manufacture of the cocaine eye-drops required under the Factory Act for First-aid cases.

S. T. P. (30/4).—RELATION OF STOCKS TO SALES.—The figures you ask for are not available, but in order to maintain an average profit on turnover some relation should always be considered between the sections of a business. A useful guide was given in the *C. & D.*, December 2, 1922, which might be regarded as the efficiency figures. In a case examined the unit taken as 100 yielded, drugs 25, sundries 20, proprietaries 40, dispensing 10, photographic 5. The art of developing a business depends on the cultivation of the most profitable ratio as shown above.

E. M. D. (1/5).—VALUATION OF BUSINESS.—The true value of a shop is arrived at by a consideration of the net profit to an investor *plus* the stock, fixtures, leasehold or any other item which may bear a pecuniary value. Your figures are too few to enable us to give anything but a guess, but the points mentioned above will enable you to work it out. A well-established business is worth four years' purchase of the net profit *plus* the additions mentioned.

M. J. C. (24/3).—POWDER USED TO KILL NITS IN CHILDREN'S HAIR.—This is an orange-yellow powder, which is wholly volatilised by heat, without evidence of organic matter. It appears to consist merely of arsenic sulphide mixed with sulphur. You do not tell us the origin of the powder, but it appears to be sheep-dipping powder and is a dangerous substance to apply to children's heads.

E. W. G. (13/5).—PRESCRIPTION CHARGE.—The charge for the prescription you send, according to the *C. & D.* costing system for dispensing, is 5s.

H. G. (13/5).—DRY SHAMPOO LIQUID of the kind you require is made as follows:—

Potassium carbonate	...	...	12 oz.
Water	...	...	2 galls.
Industrial spirit	...	...	3 galls.
Synthetic violet	...	...	1 oz.
Dry extract of quassia	...	...	1 oz.
Saponin	...	...	2 dr.

Permission must be obtained from the Excise authorities to make this up with industrial spirit. See *C. & D.*, April 23, 1923, p. 583.

P. B. C. (21/5).—The flowers sent for identification are those of *Butea frondosa*, N.O. Leguminosæ. The tree is known in India as the palas or dhak tree. The flowers, called "tésu" or "késu," yield a brilliant yellow dye, which in watery decoction is rather fleeting, but Roxburgh stated that evaporating the juice of the flowers, mixed with alum water and rendered clear by depuration and evaporating to an extract, gives a brighter water colour than gamboge, and that the extract kept for a year remained perfectly bright. Sir Thomas Wardle expressed the opinion that if *butea* flowers could be obtained in sufficient quantity and cheaply they would be a useful addition to the dyes we already possess. Hummel and Perkin ("Journal of the Society of Chemical Industry," 1895, xiv., p. 459) pointed out that under certain treatment the colours given by *butea* flowers resemble those given by young fustic. In India the flowers are used in medicine to disperse swellings and promote diuresis and the menstrual flow. The scene of Clive's victory, Plassey, is said to derive its name from the abundance of palas trees there. The magnificent orange colour of the flowers when the trees are in blossom forms a picture not easy to forget.

B. S. (7/5).—HARRINGTON'S SOLUTION.—The formula for this disinfecting lotion is as follows:—

Mercury perchloride	...	...	1 part
Hydrochloric acid	...	...	90 parts
Water	...	...	430 parts
Spirit	...	...	750 parts

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," May 15, 1874

Prohibition in the United States

The wonderful anti-liquor crusade of the women in certain of the United States is a serious matter for the druggists of the districts marked out for regeneration. These ladies know what they are about, and lay their schemes and carry them out with a Napoleonic skill. Their crusade is generally announced as against "the saloon-men and druggists." The former are the central battalions of the enemy; but the assailants by no means disregard the wings. And they have some reason in this. Many of the low druggists' shops of America are little better than disguised liquor bars, while under the title of "tonic bitters" an almost fabulous trade in strong spirits is done throughout the Union. The soda fountains, too, often serve as engines for the administration of alcohol, and physicians are not wanting who have laboriously sought in the classics the Latin equivalents for "rye whiskey" and "sherry cobbler." Who can question, therefore, the soundness of the tactics displayed by the ladies? A correspondent of the "Druggists' Circular," writing from Mount Gilead, Ohio, tells how he has been "this day interviewed by a band of crusaders numbering eighty-four ladies of diversified ages." Another correspondent, addressing the "Tennessee Pharmacal Gazette," plaintively offers a compromise with the ladies, proposing a pledge "to sell no alcoholic liquors in the guise of soda water," the demands of the temperate ones being much more radical than this. Some druggists write heartily wishing success to the movement, and others complain of the interference; but what is most singular is that nobody seems to resist it. A man who would bear the attack of "eighty-four ladies of diversified ages" without brandishing a carving-knife must be something too angelic for this world, or, at least, for this hemisphere.

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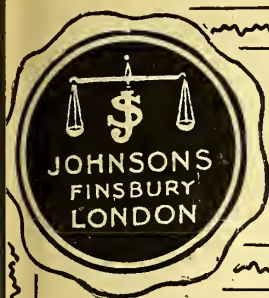
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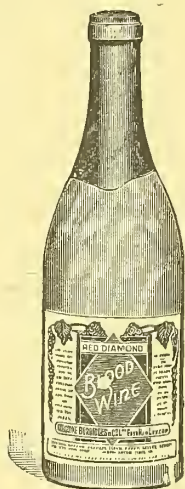
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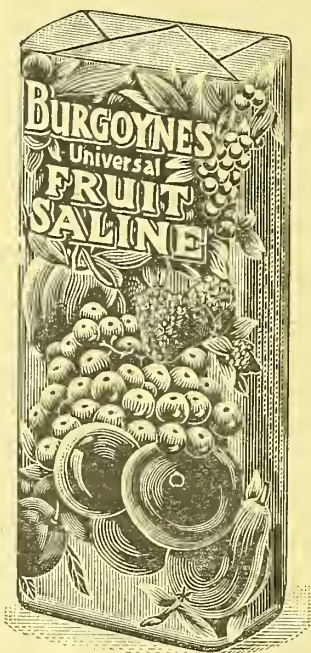
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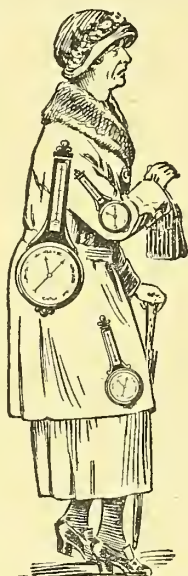
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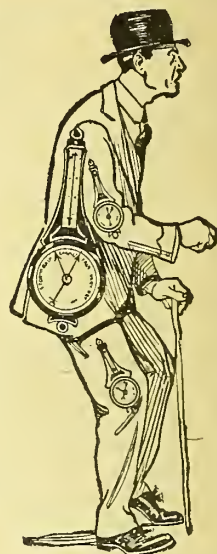
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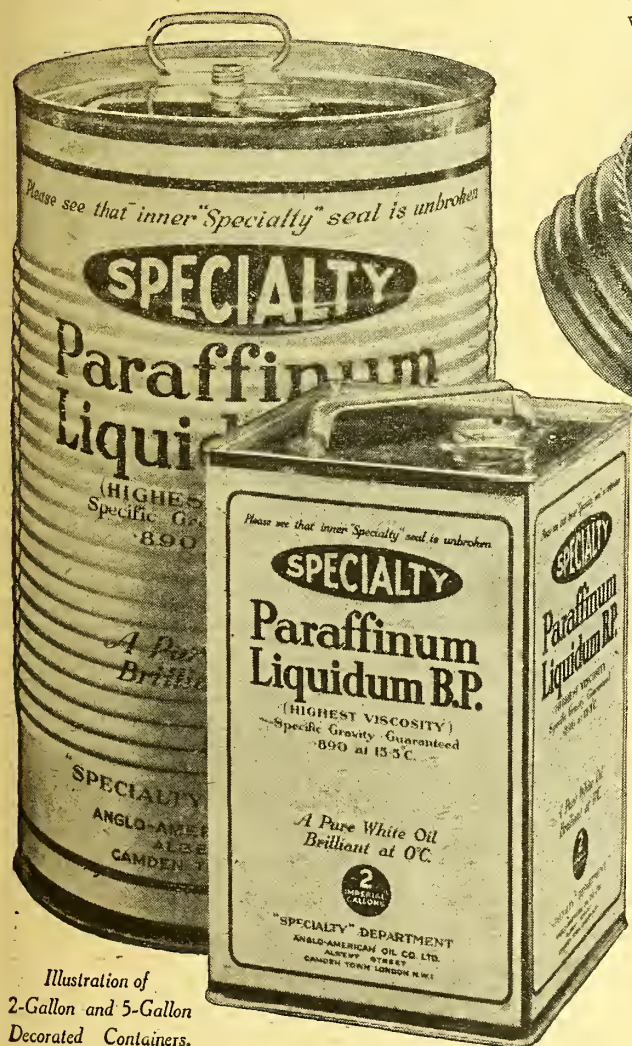


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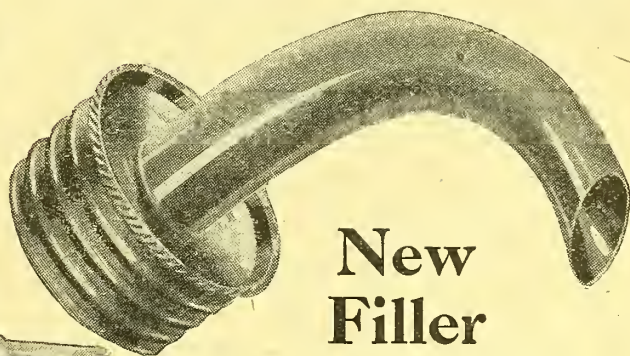
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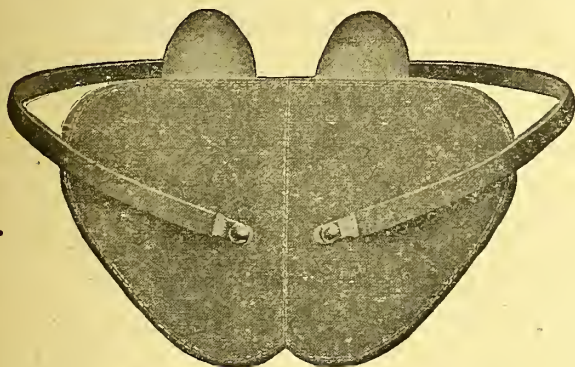
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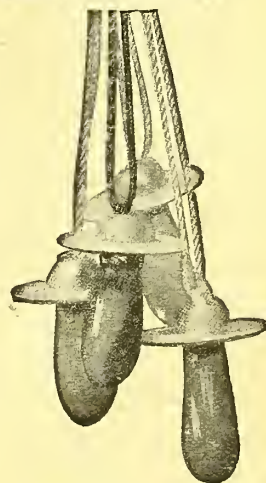
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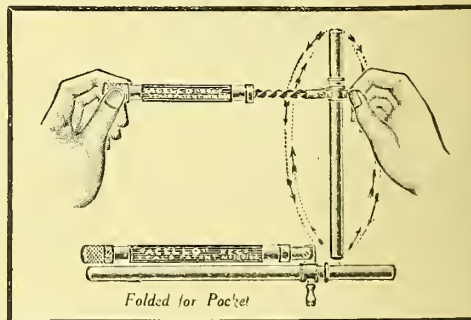
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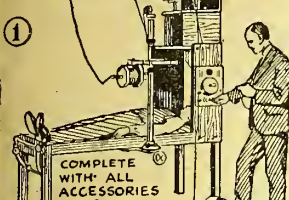
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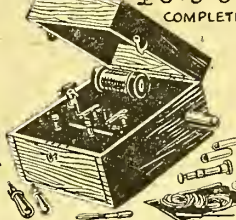


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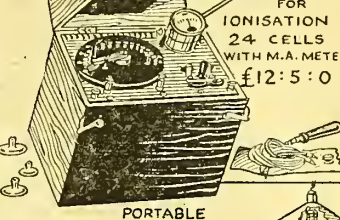
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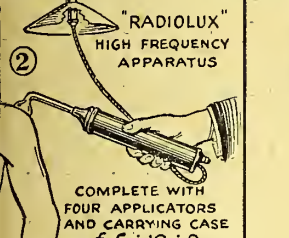
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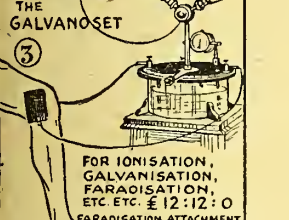
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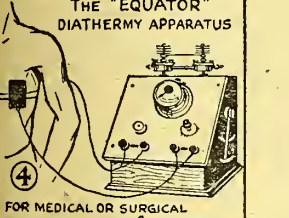
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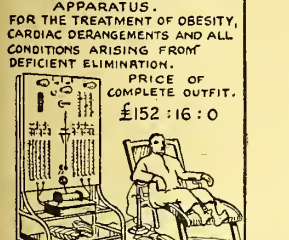
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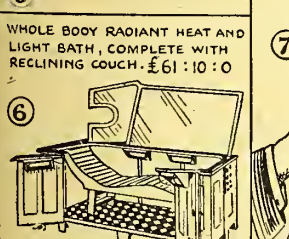
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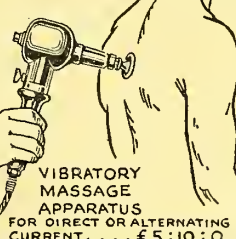
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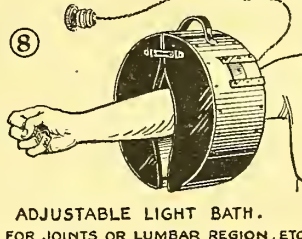
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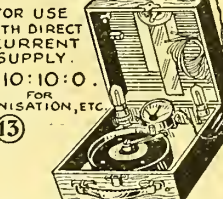
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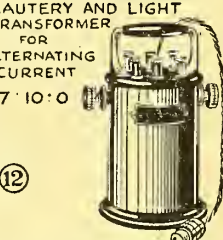
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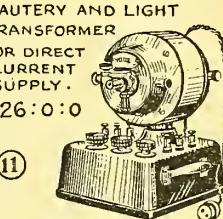
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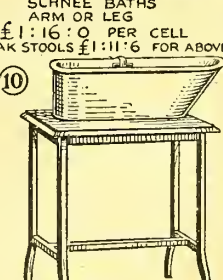
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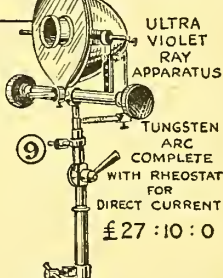
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MAY 31, 1924

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We have a few vacant dates during June and invite early applications. Terms sent on application.

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CHEMISTS' VALUER AND TRANSFER AGENT

Businesses REQUIRED or FOR SALE

If you are interested in either matter and negotiations are hanging fire, or you hesitate from reasons of publicity to make known your requirements, let me have particulars in confidence, as I have a private register of buyers and sellers.

3 ST. PAUL'S CLOSE, WALSALL. Tel. 774

BRETT & CO.

All valuations have the personal attention of F. J. Brett, M.P.S.

TRANSFER AGENTS AND VALUERS.

73 LAUREL ROAD, LEICESTER. Telephone: 1934.

WANTED, good General Light Retail; returns, about £2,000; South.

UNOPPOSED County Retail; with garden preferred; cash about £800.

YORKS. (or Near).—Open to buy any really profitable concern; cash £2,500.

Number of Buyers with cash ready in most districts.

BUSINESSES WANTED.

JOHN BRIERLEY**Valuer, Transfer Agent & Expert Stocktaker**

135 Queen St., Newton Heath, Manchester

IF YOU WISH TO BUY OR SELL A SOUND
BUSINESS QUICKLY, WRITE ME; I SPECIALISE.Stocktaking, etc., efficiently undertaken by fully-qualified staff.
LOW FEES.**THOS. TOMLINSON & SON****CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,**

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

BUSINESSES FOR DISPOSAL.for 50 words or less; 6d. for every additional 10 words
or less, prepaid.**IRMINGHAM.**—Old-established Lock-up Shop in crowded district; profitable goods sold; good opening for N.H.I. Dis-
sling; neglected of late; suit smart man who would open side
s; takings £12 per week; would accept £70 or nearest offer
quick sale; good reason for selling. 228/5, Office of this
per.**OURNEMOUTH.**—High-class Store Pharmacy; exceptional
advantages and scope; fitted in best style, handsome
erior, arcade entrance, six windows; next to post office, close
ram junction; near cliffs; main road; vast residential neigh-
rhood; rapidly extending; Kodak Agency; assured protection
inst opposition; garden; garage; excellent living accom-
modation; price £2,500, approximately value of stock and fit-
gs. Henebly, 99 Southbourne Grove.**SSEX (seaside).**—Good-class Cash Business for disposal;
established 12 months; turnover £4,300 at profitable rates;
t position; long lease; unlimited scope; sound reasons for
posal; price £2,650 cash (approximate cost); no offers.
7/25, Office of this Paper.**RIMSBY.**—Cash Retail Chemist's Business; splendid position,
main road; magnificent modern mahogany fittings; excep-
tionally well stocked; scope for Optics and Photography; modern
se attached, conservatory, and garage; owner ordered South;
table lease granted; principals only; bankers' references
changed; price as going concern £2,500, or valuation and
dwil 229/10, Office of this Paper.**TANTS COAST.**—Old-established Drug Store; good house,
yard and garage, with sub-lets; scope for improvement
h N.H.I. and Photographic; average £20 per week; stock
out £500; accept £750 all at; no agents. "Alpha," 223/38,
ice of this Paper.**EEDS.**—Sound old-established Cash Retail, with Kodak
Agency, on main road of thickly-populated suburb; shop
l fitted and stocked; good house attached; returns, 1923,
400 plus N.H.I.; average "scrips for last quarter, 783; rent
0, and lease can be had; bargain price, £1,000; Vendor
ring. Marsden, Lyndon, Mayfield Road, Bridlington.**ONDON.**—Cash Business on main 'bus and tram route; work-
ing-class neighbourhood; good Counter and Panel; double-
nted shop and convenient house; low rent, on lease; returns
ely £50 weekly; good net profit; interview given to prin-
als with cash on receipt of bankers' references; price £1,650.
ply "Genuine," 229/23, Office of this Paper.**ONDON, N.W.**—Cash Retail Business, old established, with
N.H.I.; returns average £30 weekly; well stocked, good
ings, electric light; busy market street, close King's Cross,
Pancras, Euston; let off, bringing in £49, leaving £35
t; price £700, or near offer. Apply, first instance,
hemist," 8 Priory Villas, Friern Barnet, N.11.**ORTH WALES.**—Seaside; rapidly growing district; unopposed
Business for Sale; lock-up shop; rent £20; no rates; returns
00, increasing; season commencing; scope for development;
t beginner; price £350. Apply "Spero," 229/17, Office of
s Paper, enclosing stamped, addressed envelope for reply.**WESTON, DECEASED.****NEWCASTLE-UPON-TYNE.**—Chemist's Business, comprising
double-fronted shop and house above, of 5 rooms and
scullery, for immediate sale; in growing suburb; old-established
business; price for quick sale, £2,700. Apply, Ingledew & Co.,
Milburn House, Newcastle-upon-Tyne.**SALE (MANCHESTER).**—Good Dispensing and General Busi-
ness, established 60 years, with full Wine and Spirit and
Tobacco Licences, for disposal; extensive sale own Proprietaries,
and capable of development (postal trade); central position, and
adjoining railway station and tramway stage; good living accom-
modation; rear premises suitable for mineral water works, garage
or stabling; valuable freehold property; proprietor, retiring from
business, is open to consider sale of premises, stock, fixture and
goodwill. Preliminary negotiations, by letter only, addressed
Bowen, 62 Kenwood Road, Streteford.**WEST OF ENGLAND.**—Old-established Chemist's Business
for disposal; same family over 70 years; owner retiring;
Dispensing, Family, Veterinary, Photographic, Wines; every
investigation invited; lock-up shop; capital required £3,300, or
two-thirds of price of property can remain on mortgage; house
available if required; bankers' reference. 229/9, Office of this
Paper.**FOR SALE,****FLY-CATCHER MANUFACTURING BUSINESS.****A** WELL-KNOWN and old-established Proprietary line, having
been marketed for the past 20 years, with extensive con-
nection, patent rights, etc.; capital required, £400 to £600;
stock would be offered at valuation, with plant, connection and
patent rights at an agreed sum. Write "Flies," 45/466, Office
of this Paper.**G**ENUINE Drug Stores, Patent Medicines, Toilet Requisites,
Herbs, etc.; good old-established business; double-fronted,
electric light, nice mahogany fittings; heavily stocked; living
accommodation; keeping 4; splendid position for qualified
Chemist; ill-health cause of leaving; no agents; price £950.
Orton, 77 Leeds Road, Nelson.**N**EGLECTED Branch Business for Sale; lack of capital cause;
excellent opening for qualified or unqualified man; lock-up
shop with excellent store space; main road; corner position;
site alone worth £300; offers invited for quick sale. 229/37,
Office of this Paper.**BUSINESSES WANTED.**6s. for 50 words or less; 6d. for every additional 10 words
or less, prepaid.**A** REALLY good Business required, Midlands or South or
West; turnover £2,000 to £3,000; house not essential; cash
ready. "Spero," 227/40, Office of this Paper.**A**DVERTISER is open to negotiate for good Retail and Dis-
pensary Business, showing turnover of £1,500, with good
profits; with house attached; Midlands or Coast. All particulars
supplied will be treated with full confidence, and must bear
investigation. "Qualified," 96, Beaconsfield Road, Leicester.**C**OUNTRY Dispensing and Family Business in Home Coun-
ties; returns £1,000 to £1,400; must bear investigation;
cash payment. Particulars, 229/33, Office of this Paper.**G**OOD-CLASS Dispensing and Retail Business; Midlands or
South; living accommodation preferred; showing good profits;
turnover up to £4,000 for cash. 230/4, Office of this Paper.**P**HARMACIST is open to negotiate for medium-sized Pharmacy,
London or near; cash down for genuine business, or one
that has been neglected not objected to if scope for increase.
Full particulars, in confidence; good references given and
required. Apply 229/2, Office of this Paper.**W**ANTED, sound, Light Retail; coast or near; living accom-
modation; net profit not less than £400, capable of
increase; fullest particulars, in confidence; cash available.
227/37, Office of this Paper.**W**ANTED, towards end of year, small good-class Pharmacy,
London or Edinburgh, with residence attached; Insurance
Dispensing or Photography not essential, but scope for Pre-
scribing desired. Full particulars, turnover, profit, rent, rates,
lease terms, working expenses, etc., will be treated with absolute
confidence. Reply 227/38, Office of this Paper.

TO LET.

WATFORD, WEST.—One minute from station. New Shop and House to Let, suitable for Chemist and Druggist; growing locality; moderate rent; beautiful opportunity for a keen business man. Apply Owner, Euston House, Euston Avenue, Watford, Herts.

TWO DENTISTS.—First Floor over Chemist's in Kensington to Let; very suitable for Dentist; excellent position. Apply Lloyd, 1 Russell Gardens, Holland Road, W.

FOR SALE.

BRICE & SON, Chemists, Uxbridge, have for Sale the entire Fittings of a Chemist's Shop; about £120.

FOR Sale, five £5 Ordinary Shares, United Chemists' Association, Ltd.; fully paid up. 227/39, Office of this Paper.

FOR Sale, two Oak Vats of superior quality; capacity 1,500 gallons and 151 gallons respectively. Offers to be submitted to 46/471, Office of this Paper.

TWO National Cash Registers for disposal, one registering to £2, other receipt issuing, electrically operated, register up to £4; perfect order. Clarke's, Chemists, Newport, Mon.

UCAL Ordinary Shares cum dividend; 20 fully paid for £60 net. "N." 229/4, Office of this Paper.

250 VACUUM Flasks (Maw's), 1s. 1d. each; case and carriage free. 228/7, Office of this Paper.

SITUATIONS OPEN.**[HOME.]****RETAIL.**

BARNES.—Junior Assistant wanted for good-class Dispensing and Retail; some knowledge of Photography essential. Apply, stating age, height, experience, and salary required to Feltwell & Son, 90 Church Road, Barnes, London, S.W.13.

BLACKPOOL.—Capable unqualified Assistant for season; must have knowledge of Photography. State experience, salary required, etc., references, and photo if possible (to be returned). Gillibrand, Bolton Street, Blackpool, S. Shore.

BOURNEMOUTH.—Junior Assistant required immediately; qualified preferred; Photographic knowledge essential. A. F. Lawrence, 40 Commercial Road, Bournemouth.

BURNLEY DISTRICT.—Qualified Assistant wanted (male, young); quick Cash Counter trade, with N.H.I.; comfortable berth to willing Assistant. State age, salary, height, experience, etc., with photo if possible, and when at liberty. Hankey's, 10 Colne Road, Brierfield, near Burnley.

CAMBRIDGESHIRE.—Wanted, June 30, Junior Assistant (male) for good-class business; easy hours; permanency; outdoors. Please give full particulars, salary, etc., in first letter. W. Lincolne, Ely, Cambs.

CITY.—Smart, young Junior Assistant required for good-class business; must be good Counterman and Dispenser. Apply, stating age, experience, references, and salary required, to Cassie & Co., Ltd., Chemists, 103 Newgate Street, E.C.

CROYDON.—Assistant required, young, capable, and energetic. Apply by letter, stating age, experience, and salary required, to C. Dickinson, 119 South End, Croydon.

DEAL.—Assistant required for season; must be good Dispenser and Photographic Salesman; salary £4 (outdoors). Full particulars and references to Stewart Dunn & Son, Chemists, Deal.

DEVON.—Wanted, Assistant (male or female) from June 12 for a fortnight; experience in Dispensing essential. Apply, stating terms, in or outdoors, to Seth Harry, The Pharmacy, Okehampton.

EASTBOURNE.—From middle of June to beginning of October, unqualified Assistant, outdoors, with good Dispensing experience. State age, height, whether married or single, experience, salary required, references, etc.; easy hours; no Sunday duty. Apply Moss, Pharmacist, Eastbourne.

GREAT YARMOUTH.—Young Unqualified Assistant for three weeks, June 30 to July 19. State salary (outdoor). T. L. Drabbb, Southtown.

LONDON, E.C.4.—Qualified Assistant required at once (male, young; knowledge Photography essential; no Sunday Bank Holiday duty. Apply Shadforth Prescription Service, Ltd., 49 King William Street, E.C.4.

LONDON, S.E.—Qualified Assistant wanted; permanent situation; must have good references. Write, stating wages, etc., Banks, Ltd., 356 Walworth Road.

LONDON (West End).—Smart Junior for evening duty; accustomed to good-class business; one speaking French an advantage. Full particulars to H. N. Davidge, 11 Shaftesbury Avenue, Piccadilly Circus, W.1.

LONDON, S.W.—Smart unqualified Assistant required for high class Store business; must have been accustomed to West End trade; early closing Saturdays, 1 p.m. Apply, Staff Office Harrods, Ltd., 44 Hans Crescent, S.W.1.

LEICESTER.—Wanted, Junior Assistant for high-class Dispensing business; must be good Dispenser and obliging Counterman, Window-dresser and understand Photography. References, age, height, and salary required, photo if possible. Woolley & Co., Station Pharmacy, London Road, Leicester.

MANCHESTER.—Smart Salesman for high-class Perfumery and Toilet Business; must be energetic and alive. State first letter, age, height, experience, salary, married or single when disengaged. 230/19, Office of this Paper.

NEWPORT (Mon.).—Wanted at once, experienced Assistant with thorough knowledge of Photographic side of business. Kindly state in first letter age, details of experience, when disengaged, salary required, and enclose photo (returnable). T. J. Badgett, Chemist, Newport (Mon.).

NEWPORT, MON.—Junior Wanted, unqualified, aged 23-24 years, good appearance, good Salesman, with knowledge of Photography and N.H.I. Dispensing, for mixed count business. Apply, stating salary required (outdoors) and when disengaged, with references and photo, to 1 Gold Tops.

NORFOLK COAST.—A reliable Assistant required for June for about 3 months; must be used to first-class Dispensing Counter and Photographic work (Kodak vertical tanks use State age, height, salary (outdoors), references, experience, and enclose a photograph (returnable). Cadman, Chemist, Sheringham.

NORTHUMBERLAND.—Required, unqualified Assistant single; good appearance; accustomed to N.H.I. work Counter and Window-dressing. Give full particulars as to age, height, experience, salary, and enclose photo. 230/7, Office of this Paper.

OXFORD.—Capable Assistant (unqualified) wanted for high class business; must be good Counterman. State reference experience, age, height, salary, when disengaged, and send photo to The Oxford Drug Co., Ltd., Dispensing and Family Chemists, Oxford.

ROYAL NORTHERN HOSPITAL, HOLLOWAY, LONDON.
A QUALIFIED Locum Dispenser required for three weeks from June 16, and for a similar period from July 28.
Apply, stating experience and terms, to
GILBERT G. PANTER,
Secretary

SANDOWN, I.W.—Unqualified Assistant (male, age 23-27) required for season, June to November, chiefly for Dispensing and Counter; reliable Dispenser essential; some knowledge Photography. Apply, stating experience, references, salary required (outdoors), etc., to Woodlings, High Street, Sandown.

SOUTH COAST.—Smart qualified Manager wanted for moderate good-class Store business; must be good Window-dresser, energetic, and a live worker. Please give fullest particulars, confidence, stating salary required, also age and when disengaged, to 230/8, Office of this Paper.

TAUNTON.—Assistant, gentleman, medium height, young, wanted immediately; Light Retail. Full particulars and salary, 229/7, Office of this Paper.

TORQUAY.—Junior unqualified Assistant (male) in good-class Dispensing business. Apply, with full particulars, to J. A. Newlyn, The Wellswood Pharmacy, 19 Ilsham Road, Torquay.

ASSISTANT or Improver; male; permanent; tall, smart Salesman; state age, height, salary and experience; he 8.30-8 p.m., alternate Sunday 6 to 8 p.m., usual half-day. Frank Purcell, Photographic Chemist, Strand Street, Douglas, Isle of Man.

ASSISTANT; unqualified; good Dispenser, used to Photographic work, up-to-date Salesman and Window-dresser. Apply, with full particulars, to McKinlay, Chemist, Glossop.

ASSISTANT (male); experienced; N.H.I. and Retail; outdoors. Kernot, Chemist, 89 Upper North Street, Poplar, E.14.

ASSISTANT required; young, smart, capable and energetic for permanency. Apply by letter to Parke's Drug Store Limited, 65 Harwood Street, Kentish Town, N.W.

ASSISTANT; permanency; Dispensing, Counter, Photographic (D. and P. included). State age, height, salary, and include photo with references in first letter; good-class business; Midlands. 230/6, Office of this Paper.

CHEMIST—Qualified man, young and energetic, required to manage branch shop; must be absolutely trustworthy. Applications, with full particulars of experience, age, salary required, and names for two references, to the Doncaster Mutual Co-operative & Industrial Society, Ltd., 1 John Street, Doncaster. Envelopes endorsed "Pharmacist."

COMPETENT and reliable Assistant for middle-class business; good Salesman and Window-dresser. Full particulars to Wood, Chemist, Stafford.

DISPENSER (female) required for a Metropolitan Hospital; candidates must possess the Major qualification of the Pharmaceutical Society and be from 25 to 35 years of age, and have had previous Hospital experience in a Voluntary London or Provincial General Hospital. Applications, with copies of not more than three recent testimonials, stating salary asked (tea only provided) and full particulars, to "X. Y. Z.," c/o F. Aldridge, Advt. Manager, 26 Paternoster Row, E.C.4.

ELLWOOD & SON require a Locum for a fortnight, commence June 9. Reply, with full particulars, The Rexall Pharmacy, Leominster.

HOLIDAY RELIEF—Henry Hodder & Co., Ltd., have vacancies for qualified Manager; also unqualified Assistant; probable period four months. Apply, with full particulars, to Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

JUNIOR Assistant required; outdoor; good Dispenser and with knowledge of Agricultural trade. Particulars, references, and salary required to Allen & Neale, Chemists, King's Lynn.

JUNIOR, experienced, required shortly for Dispensing and quick Counter trade; must be well recommended. Apply by letter, with full particulars, to J. J. Smith & Son, Pharmacists, Walton, Liverpool.

LADY Dispenser, qualified Minor, wanted June 11; must be reliable, accurate and well recommended. Full particulars (photo if possible) to Strode, Cosh & Penfold, Lower Union Street, Bristol.

LADY Assistant for Book-keeping, Stock, Window-dressing and Toilet Counter for good-class business. Cave, 52 Nevill Street, Southport, Lancs.

LADY Assistant required at once; knowledge of Photography essential; good developer and printer; able to dress toilet window. Full particulars, salary required, etc., to Butler's Pharmacy, Ltd., 199 Parrock Street, Gravesend.

LOCUM, qualified, wanted from July 14 to 26 inclusive. Apply, stating terms, age, and enclosing references, to "Locum," Henry Tinker, Chemist, The Heights, Manchester.

MANAGER (qualified) for good-class Retail and Dispensing business; must be energetic, obliging and tactful Salesman, with knowledge of Photography; excellent prospects for a man of ability. State age, height, experience, salary, with references of two last engagements and how long held, and photo to "Hants," 229/27, Office of this Paper.

PERMANENT—Qualified Manager wanted; reliable, energetic, middle-aged man; take charge Country Pharmacy 40 miles London; good salary, commission, prospects right man. 226/38, Office of this Paper.

QUALIFIED man, young, for the season trade in the Isle of Man. Apply, Mr. Murray, Ayrton, Saunders & Co., Ltd., Liverpool.

QUALIFIED Dispenser as Senior required for high-class Dispensing business, N.W. London. Apply, giving full particulars of experience, to "T.," 46/468, Office of this Paper.

QUALIFIED Assistant required in a good-class suburban business; moderate hours; no holidays or Sunday duties. Apply by letter, stating full particulars as to experience, wages, with reference and photo, Ellis, c/o Newton Wright, 111 High Road, Ilford.

QUALIFIED lady or gentleman Assistant as Superintendent; permanency; must be good and quick Dispenser; hours 9-8, 1 hour duty every other Wednesday evening. State salary, enclosing photo, with full particulars, Short, 41 King Street, Southall, Middlesex.

QUALIFIED lady required, Dispensing, Photography, light Counter work; inland town; easy berth; near London. State age, salary, when free, to "S.," 228/37, Office of this Paper.

QUALIFIED Manager required for Light Retail and Dispensing (N.H.I.) business; good opening for a man anxious to make progress; liberal interest in the profits offered. 214/37, Office of this Paper.

QUALIFIED Assistant required for branch; Cash Retail with N.H.I.; good prospects for keen young business man who is a good Salesman and Window-dresser. Please state age, experience and salary to Stokes, Chemist, Bristol.

QUALIFIED Locum required for Public Institution from July 21 to September 20; Hospital experience essential; salary £5 10s. per week, with dinner and tea daily. Apply, enclosing three recent testimonials, to the Clerk, Board Room, Union Road, Leytonstone, E.11.

SALESMAN - WINDOW-DRESSER required for Perfumery Department of large stores. Gentlemen with proved ability in high-class West-End business are asked to give fullest particulars of experience, salary required, etc., in strict confidence, to 46/474, Office of this Paper.

THOMPSON & CAPPER, LTD., have a vacancy for a Locum at one of their Manchester Branches; period about three months. Please apply, giving particulars, and enclose photograph if possible, to Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

WANTED, qualified lady Dispenser for Doctor in Gillingham (Kent); must be thoroughly experienced, able to take responsibility, and to do Book-keeping. Reply, giving full particulars of age, qualification, and experience, together with copies of testimonials and recent photograph, to 46/467, Office of this Paper.

WANTED, at once, an Assistant, about 24 years of age; must be a careful Dispenser, with experience in first-class business; must have good references; qualified preferred. Apply, W. Hooper & Co., Pharmaceutical Chemist, Letchworth, Herts.

WANTED, immediately, qualified Assistant; good Window-dresser; state salary required. Harris, 133 Clifton Street, Cardiff.

WANTED at once, Junior Assistant; must be well recommended and accustomed to brisk counter trade and N.H.I. Dispensing. Applicants please state full particulars. Nidd, 714 Rochdale Road, Manchester.

WANTED immediately, a reliable Assistant with good knowledge of Photography; qualification not absolutely necessary; permanency to good man. Stovin, Chemist and Optician, Eastbourne.

WANTED, an experienced, unqualified Assistant; West-End experience preferred. Apply, giving usual particulars, to Phillips, Chemist, 115 Gt. Russell Street, W.C.1 (Y.M.C.A. Buildings).

WANTED, young qualified Assistant (male); outdoors; Dispensing and Counter; knowledge of Photography. State full particulars salary, etc. "X.Y.Z.," 229/39, Office of this Paper.

YOUNG Lady for Bookkeeping, Toilet Counter, and Window-dressing; some experience necessary. State salary required, photo. Whysall & Son, Rexall Chemists, Grantham.

YOUNG lady for Dispensing and Counter; must be reliable, experienced, and good Saleswoman. Apply, with fullest particulars, to 46/469, Office of this Paper.

WHOLESALE.

LANCASHIRE—Wanted, live Representative to carry excellent lines Packed Oils, etc.; commission and part expenses. State qualifications, refs., 46/476, Office of this Paper.

ARTHUR H. COX & CO., LTD., Manufacturing Chemists, Brighton, are open to receive applications for Representatives for Yorkshire, Lancashire and the Midlands; full details of previous experience, salary required, etc., to be given in first letter, and photo enclosed; only good, live salesmen, not afraid of work, need apply.

ASSISTANT wanted for Packing Room to attend to waiting counter orders; must be quick and accurate. Apply, with full particulars, to "Solo," 45/462, Office of this Paper.

CAPABLE Assistant required in Sundries and Instrument Department of London Wholesale Druggists. State experience and wages asked to 45/451, Office of this Paper.

DESPATCH Manager for large Chemist's business; capable man required immediately to control staff; must have thorough knowledge of packing (home and export), transport facilities, local deliveries, etc. Give experience, copies of testimonials, salary expected, to 46/470, Office of this Paper.

EXPERIENCED Hand, capable of taking full charge of Wholesale Druggists' Steam Laboratory. Please give all particulars in first letter of former experience, also age and salary. 230/14, Office of this Paper.

FOREWOMAN, experienced in packing Chemists' Lines, Wets and Drys, Perfumes, Sundries; good organiser; able to introduce new ideas and control staff; if now acting as leading hand and possessing the ability would be considered for the position. Apply to 46/472, Office of this Paper.

REPRESENTATIVES required, with good connection among Chemists, Glasgow and the West, Edinburgh and East Coast, to push, as a side line, well-known Proprietaries; commission basis. State lines handled, ground covered, etc., to 227/30, Office of this Paper.

REPRESENTATIVE wanted on commission and expenses terms to represent a well-known London house in Lancashire, Yorkshire and Cheshire to sell Packed Lines, Tablets, Pills, Capsules, Lozenges, etc.; no objection to one carrying non-competitive lines. Send full particulars to "C. S.," 45/465, Office of this Paper.

REPRESENTATIVE on commission required by proprietors of well-advertised Proprietary Goods for Berks, Bucks, Beds, Herts, and Oxford; no objection to another non-clashing line being carried. Please write full particulars to 45/463, Office of this Paper.

REPRESENTATIVE required, sound connection London amongst Chemists' and Druggists' Sundries, for all classes of Brushes, Combs, Wadding, Syringes, Cones, Rubber Goods and kindred trades. Full particulars, commission, to "A. B.," (P.C.B. 71/28), Office of this Paper.

TO Travellers, calling on Chemists' and Druggists' Sundriesmen, wanted to undertake sale of important Food Preparation; long commission to energetic man. Write, giving all information and districts worked, to Box 321, Horncastle, 5 Moor-gate Buildings, E.C.2.

WANTED, by firm of Manufacturing Chemists in North of England, young, energetic qualified Chemist; must have had at least two or three years' practical experience in good Wholesale Laboratory, particularly in the manufacture of Ointments, Emulsions and Syrups, etc.; good chance of a permanent position for smart man, with idea of sole charge of laboratory in short time. Apply 227/1, Office of this Paper.

WE have vacancies for Representatives with sound connections in (1) Yorkshire, Durham, and Northumberland; (2) Lancashire, Westmorland, and Cumberland; (3) Hertfordshire, Suffolk and Norfolk; (4) Scotland; (5) Ireland; articles being increasingly advertised; liberal terms and expenses; all applications treated in strict confidence, but only letters giving full particulars considered. Osmos Salts, Ltd., Teddington, Middlesex.

[COLONIAL, INDIAN AND FOREIGN.]

SHANGHAI MUNICIPAL COUNCIL. PUBLIC HEALTH DEPARTMENT. ASSISTANT PHARMACIST.

AN Assistant Pharmacist is required in the Public Health Department of the Shanghai Municipal Council.

Candidates must be under 30 years of age and unmarried. The Minor qualification of the Pharmaceutical Society is essential. The selected candidate will be required to undertake Dispensing of Medicines, Preparation of Galenicals, etc., as required for the Municipal Hospitals and Municipal Staff.

Salary, Taels 350 per mensem, under a three years' agreement, which is renewable at a higher salary in the event of satisfactory services. First class passage is granted, with half pay during voyage. Eight months' leave is granted on full pay, with passage paid, after every period of five years' service in Shanghai. Free medical attendance is provided, and the employee participates in the benefits of a Superannuation Fund. A tael at the present rate of exchange equals 3s. 2d. Exchange is, however, subject to fluctuation.

Particulars of the appointment and also full details as to the benefits enjoyed by municipal employees under their terms of service and as to cost of living, etc., may be obtained from the Council's Agents. Applications, in candidate's own handwriting, with full information as to qualifications and experience, etc., accompanied by at least three recent testimonials (copies only) and endorsed "Pharmacist" on the cover, should be forwarded to

JOHN POOK & CO.

Agents for the Municipal Council of Shanghai,
68 Fenchurch Street, London, E.C.3.

May, 1924.

BOMBAY.—Assistant, Minor qualification, for Bombay; single, age about 24, with London experience, good Window-dressing abilities, and knowledge of Photo trade; three years' agreement, liberal terms, passage paid out and home; permanent position. Replies, with fullest particulars, to 45/454, Office of this Paper.

EAST AFRICA.—Wanted, for Kenya Colony, Chemist's Assistant; qualified preferred; unmarried; age 26 to 30, 3 years' agreement; £360, £420, £480. Send copies testimonials, stating qualifications, record, etc., to "N.," 54 St. Mary Axe, London, E.C.3.

REPRESENTATIVES required by Wholesale Druggists for South Africa, Australia and New Zealand for Drugs and Druggists' Sundries; Travellers with other agencies in the Dominions preferred (if not competitive. Apply by letter, giving fullest particulars in confidence) to "X.Y.Z.," 46/475, Office of this Paper.

TABLET MAKER.—Young man, thoroughly understanding the rudiments of his craft and with practical experience, required as Assistant in a Colonial Laboratory; passage paid out; three years' agreement; good prospects; healthy climate. Apply, by letter only, to Lennon, 14 Lafone Street, London, S.E.1.

SITUATIONS WANTED.

RETAIL.

[HOME.]

A.A.—MISS GRACE RENNIE, Pharmacist, experienced Hospital and Retail, now booking, Locums or Temporary. 61 Church Road, Moseley, Birmingham.

A.—UNQUALIFIED, young, good experience, good references, shortly desires post; near London preferred, not essential. Write 229/19, Office of this Paper.

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A THOROUGHLY experienced and capable Assistant, 33, requires permanency; London district; good references. "B.," 24 Mead Plat, Willesden.

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A BOUT mid-August, London, Manager, Ph.C., 28, single, good London, suburban, all-round knowledge of the trade, free at above date; I want a job where push is required; I know the ways and means; if you may have a vacancy, then investigate my capabilities now. 221/9, Office of this Paper.

A S Locum, or permanency; disengaged 31st. "Chemists," 174 St. Peter's Avenue, Kettering.

A SSISTANT (Senior); disengaged; wide experience; unqualified; could take charge; married; Dispensing, Counter, Window; excellent references. Hocking, 17 College Avenue, Plymouth.

A SSISTANT, 34, well up Retail, Dispensing, and Photographic; height 5 ft. 7½ in.; considered first-class Counter-man and Window-dresser; capable of taking full charge; disengaged; excellent references. "Business," 9 Avondale Road, Eastbourne.

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A SSISTANT; brisk Counter trade, light Dispensing, Windows, Stock; moderate salary; satisfactory references; excellent general experience. "Provinces," 227/27, Office of this Paper.

A T liberty; qualified; 32; locum or temporary; Lancashire district; moderate salary. 229/36, Office of this Paper.

B RISTOL.—Qualified desires part-time employment; age 49. Hopkins, 6 Logan Road, Bishopston.

D ISENGAGED, 46, seeks situation as Assistant or Manager of Drug Stores; unregistered; good experience, including long engagements. "W.," 181 Askern Road, Bentley, Doncaster.

D ISPENSER (Hall, 1905); member A.C.D.; good testimonials and well recommended; experienced Hospital, Dispensary, Private Practice, and V.D. work; locum or permanency; London or near; if locum offered please state hours and remuneration; disengaged; save this advertisement for future reference. George Reed, The Green, Warrlingham, Surrey.

D OCTOR'S DISPENSER.—Lady, with 13 years' good experience, desires position as Dispenser and Book-keeper to Medical man in London suburb; has Hall qualification and is highly recommended. "O. L.," 45/464, Office of this Paper.

ELDERLY Pharmacist, healthy and active, desires post. Brown, 49 Henry St., Rishston, Lancs.

UNIOR (apprenticed four years), now disengaged, desires situation; Newcastle or Sunderland preferred; experienced 4-class Counter, Photographic, moderate N.H.I. Dispensing. F. S., University Observatory, Durham.

UNIOR, 20, desires post near School of Pharmacy; Bath or district preferred; energetic, willing, well experienced, Disengaged. Window-dressing, Photographic and Counter; highly commended. Webb, High Street, Cowbridge.

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OCUM.—Assistant; age 30; single; June, July, August; now booking dates; good-class experience in all branches; ndon and suburbs. Apply 228/4, Office of this Paper.

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OCUM.—M. Smith, 96 Humberstone Drive, Leicester, permanent address; over 30 years' qualified experience; highest entials; reliable service; moderate terms; anywhere; one ilway fare; disengaged; only few dates open.

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MANAGER, qualified, seeks appointment in London; fourteen years' control; all-round experience; keen worker and capable of producing results; good references. 230/22, Office of this Paper.

MANAGER, qualified, 36, desires change; present position 43 years; Midlands or Home Counties preferred; excellent provincial and West-End experience; highest references. Kindly exchange fullest details with "Energy," 230/11, Office of this aper.

QUALIFIED; elderly; Hospital or Institution; 11 years' Hospital experience. "Chelsea," 22 Bramerton Street,elsea, S.W.3.

QUALIFIED; permanency; outdoors; London; Photographics, Counter; not afraid of work. "Thomas," 60 Sandymere ad, Clapham.

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QUALIFIED lady Dispenser, experienced, requires post with Doctor; would do Locum. O. Berry, Hazelbank, Boxmoor.

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UNQUALIFIED Assistant, married, desires permanency; Stock, Counter, Dispensing, Prescribing; moderate salary. "Statim," 31 Groveway, Chadwell Heath, Essex.

UNQUALIFIED; branch or Dispenser; expert Salesman, Prescriber; 38; hard worker; thoroughly reliable; undeniable references; anywhere. "Integrity," 112 Hunloke Avenue, Chesterfield.

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A YOUNG lady, experienced in Chemical Trade and General Merchant's Office, desires re-engagement; excellent references. "J. H.," 38 Agate Road, Hammersmith, W.

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EX-OFFICER, 30, single, educated Public School, 3 years University, Intermediate Physics and Chemistry, some knowledge French, 4 years' Laboratory experience, good knowledge Electrical Engineering, desires post, preferably in Chemical Works or Oil Refinery. M.L. 34284, Office of this Paper.

EX-OFFICER, 26, married, Inter B.Sc. (Chemistry), some experience in Oils and Sewage, desires post as Assistant Chemist, Commercial Laboratory. M.L. 12054, Office of this Paper.

LATE Lt.-Qmr., R.A.M.C., 48, married, desires post as Dispenser, Storekeeper or Steward, Public Institution; 20 years' experience as Army Dispenser and Steward and 7 years' experience as Quartermaster, 1 year as Officer-in-Charge of Base Depot, Medical Stores, France. M.L. 73959, Office of this Paper.

MAN, 20 years' experience Wholesale Chemists' Sundries, requires situation as Buyer, Representative or position of trust. P.C.B. 71/3, Office of this Paper.

OIL Chemist, 28, single, M.C., B.Sc. (Hons. Chemistry), A.R.C.Sc., A.I.C.; good technical French; experienced Laboratory Chemist, Oilfields; 12 months' experience Research work, Oil Technology Department; willing to take any post, in keeping with qualifications. M.L. 44162, Office of this Paper.

PAPER Chemist, 24; 3 years' war service, M.C.; B.Sc. Honours, Chemistry A.R.C.S., (Chemistry) A.I.C.; some knowledge French; 12 months' experience manufacture and application of Industrial and Laboratory Filter Paper; any post. M.L. 70954, Office of this Paper.

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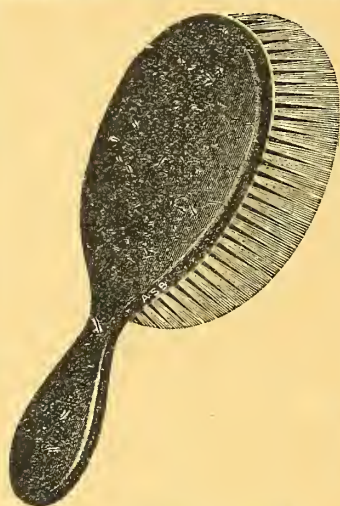
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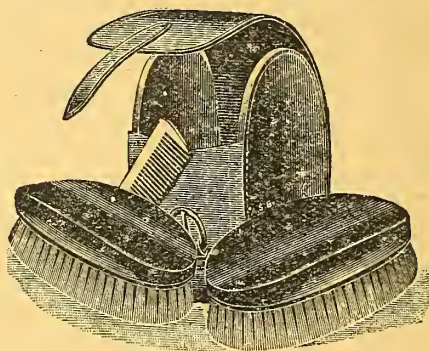
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